# Appendix C Pre-Construction and Mutual Understanding Meeting Minutes

(provided on electronic copy only)



Aptim Federal Services, LLC

1230 Columbia Street, Suite 1200 San Diego, CA 92101 Tel: +1 619 239 1690

Fax: +1 619 239 1690 Fax: +1 619 239 1238 www.APTIM.com

August 23, 2018 DCN: APTM-0006-4550-0033

Ms. Leslie Howard Environmental Engineering Support Navy Base Realignment and Closure Program Management Office West 33000 Nixie Way, Building 50 San Diego, California 92147

Contract: RADMAC II—Contract No. N62473-17-D-0006, Contract Task Order: N62473-17-F-4550

Radiological Work Tasks, Remedial Action and Maintenance of Remedies at Hunters

Point Naval Shipyard, San Francisco, California

Subject: Pre-Construction and Mutual Understanding Meeting Minutes

Dear Ms. Howard:

Aptim Federal Services LLC is pleased to submit the pre-construction and mutual understanding meeting minutes for Contract No. N62473-17-D-0006, Contract Task Order: N62473-17-F-4550, Radiological Work Tasks, Remedial Action and Maintenance of Remedies at Hunters Point Naval Shipyard, San Francisco, California.

If you have any questions regarding this letter, please do not hesitate to contact me at 619.446.4508.

Sincerely,

Lisa Bercik, PE Project Manager

Aptim Federal Services, LLC

#### Attachments:

- 1. Project Kick-Off Meeting Minutes
- 2. Project Kick-Off Meeting Sign In Sheet
- 3. Construction Site Layout Map
- 4. Project Schedule
- 5. Revised Definable Features Matrix
- 6. Revised Organization Chart

		C	ONTRAC	T INFO	RMATION	
Contract/Task-Delivery Order Number: N62473-17-D-000 CTO N62473-17-1 4550		MAINTENA SHIPYARD Pre-Construc HPNS at 110 Call-in	GICAL WO ANCE OF SAN FR.	REMED ANCISC ing schedu via confe 666.844.9	OIES AT HUNTE O, CALIFORNI uled for July 24, 2 erence call: 419	AL ACTION AND ERS POINT NAVAL A 2018 at the APTIM trailer at
Award Date:	Aw	ard Amount:	Contract Duration		Completion Date:	Liquidated Damages:
15 Sep 2017	\$5,4	186,720.93	36 month		15 Sep 2020	N/A
Contractor: Aptim Federal Ser	vices	LLC		A-E: N/A		

#### I. Introductions

The Navy and APTIM teams introduced themselves. Ms. Leslie Howard, Navy RPM, introduced Ms. Samantha Knolle and explained Ms. Knolle would be the acting RPM for Parcel D-1 Phase 2. All communications shall be directed to Ms. Knolle and Ms. Howard shall be cc'ed.

### II. Roles and Responsibilities

Client: NAVFAC SW

Title	Area of Responsibility	Name	Phone No./Email
Remedial Project Manager (RPM)	Overall responsibility Technical/Engineering/ Financial aspect of project	Leslie Howard	(619) 524-5903 leslie.howard@navy.mil
Remedial Project Manager (RPM) – Parcel D-1	Overall responsibility Technical/Engineering/ Financial aspect of project	Samantha Knolle	(619) 524-5795 samantha.l.knolle@navy.mil
Lead RPM	Overall responsibility Technical/Engineering/ Financial aspect of HPNS	Danielle Janda	(619) 524-5096 danielle.janda@navy.mil
Contracting Officer	Contract modifications/invoicing/ payrolls	Cheryl Mercado	(619) 524-5665

Title	Area of Responsibility	Name	Phone No./Email
CSO	Coordination with HPNS/UCSF/Access/ Scheduling	Patricia McFadden	(415) 743-4720 (office) (415) 559-9961 (mobile) patricia.mcfadden@navy.mil
CSO	Coordination with HPNS/UCSF/Access/ Scheduling	Doug Delong	(415) 743-4713 (office) (510) 220-1894 (mobile) douglas.delong.ctr@navy.mil
CSO	Coordination with HPNS/UCSF/Access/ Scheduling	Tom Ivey	(415) 685-7580 glennwood.ivery@navy.mil
Resident- Officer-In- Charge-Of- Construction (AROICC)	Overall responsibility for ROICC SF Bay	LT Camilo Colorado	(510) 333-2621 (mobile)
Supervisory General Engineer (SGE)	Authorized to serve in the absence of the ROICC	Tony Encarnacion	(510) 501-1170
ROICC Engineering Technician (ET)	Quality assurance (QA)/Safety/Conduct labor interviews/Issues deficiency notices	Jeff Griffin	(510) 501-4885 jeff.a.griffin@navy.mil
ROICC Construction Manager	Field Safety/Navy Technical Representative/Field Administration	Shirley Ng	(510) 521-8713 (office) (510) 502-5051 (mobile) shirley.ng@navy.mil

Contractor: Aptim Federal Services, LLC

Title	Name	Phone No. / Email
Program Manager	Ulrika Messer	(619) 446-4529 (office)
		(619) 241-9451 (mobile)
		ulrika.messer@aptim.com
Project Manager	Lisa Bercik	(619) 446-4508 (office)
		(619) 213-3389 (mobile)
		lisa.bercik@aptim.com

Title	Name	Phone No. / Email
Project Engineer	Mike Ayala	(925) 288-2158 (office)
		mike.ayala@aptim.com
Bay Area	Jim Click	(303) 345-8998 (mobile)
Construction Manager		james.click@aptim.com
HPNS Construction	Sean Orman	(925) 330-9510
Manager		sean.orman@aptim.com
Radiological	Ray Schul	(518) 496-5533
Operations Manager		raymond.schul@aptim.com
HPNS PRSO	Randall Killpack	(801) 244-2394
		randall.killpack@aptim.com
Safety Health and	Mark Egan	(925) 321-6169 (mobile)
Safety Officer (SSHO)		mark.egan@aptim.com
Alternative SSHO	Mark Vennemeyer	(925) 383-6502 (mobile)
		mark.vennemeyer@aptim.com
Project Quality	Lee Laws	(925) 759-1787 (mobile)
Control Manager (PQCM)		lee.laws@aptim.com
Alternative PQCM	Mark Vennemeyer	(925) 383-6502 (mobile)
		mark.vennemeyer@aptim.com
Field Engineer	Renata Vidovic	(408) 505-7319 (mobile)
		renata.vidovic@aptim.com
Project Chemist	Eddie Kalombo	(415) 987-0760 (mobile)
		eddie.kalombo@aptim.com

#### III. Communications

- 1. RPM, ROICC, and the CSO will be notified at least 48 hours prior to all field activities.
- 2. A daily CQC and CPR report will be submitted to the ROICC, CSO and RPM for each day of field activities.
- 3. The ROICC and CSO will be notified of all field safety and QC issues. Actions requiring a Contracting Officer, such as adding, changes or modifications to the contract will only be executed by the Contracting Officer.

- 4. The consultant name (APTIM) and Navy contract number will be included on all reports and project documents.
- 5. Correspondence to ROICC will be by email. The RPM and CSO will be copied on all correspondence to the ROICC.
  - i. Holiday or outside normal work hours work requests to ROICC via email.
  - ii. Notify ROICC via email to coordinate mobilization for crane/load handling equipment/man-lift.

#### IV. Safety and Environmental

- 1. Accident Prevention Plan (APP)/Site Safety and Health Plan (SSHP) has been finalized. APP Amendment 01 is under ROICC review. APP/SSHP complies with 2014 USACE EM-385-1-1 Manual.
  - i. Activity Hazard Analyses (AHAs) were prepared for each phase of work, the AHAs will be reviewed by all site personnel and will be discussed at safety briefings by SSHO prior to start of field activities. If the initial Risk Assessment Code (RAC) increases due to a change made to the AHA by the workers, the AHA shall be resubmitted to the Government Designated Authority (GDA) for acceptance prior to work proceeding. Changes to or updates to an AHA that do not increase the RAC are not required to be resubmitted for acceptance by the GDA.
    - 1. APTIM submitted revised AHAs to Ms. Shirley Ng, ROICC, for review. Ms. Ng stated the AHAs tracked changes can be accepted, signed by the SSHO and resubmitted.
  - ii. All field work will be conducted in Level D or modified Level D PPE as specified in the AHAs. Level D PPE includes steel-toed boots/shoes, hard hats, disposable coverall, reflective vests, eye protection, gloves, hearing protection if necessary. Modified Level D PPE includes Level D PPE plus Tyvek-type coveralls. Personal flotation devices (Types III or V) will be required when on small boats and when working adjacent to the water (within 6 feet of the edge of piers/berths) (Types I, II, or III).
  - iii. Smoking will not be permitted at job site or in site vehicles, only in designated areas.
  - iv. Equipment brought on site will be inspected and must meet EM-385-1-1 requirements. Daily equipment inspections will be conducted by qualified personnel in the field. Checklist will be completed daily for each day of activity using the form in the APP/SSHP. Notify ROICC via email to coordinate mobilization for load handling equipment/man-lift.
- 2. Emergency Notifications As described in APP/SSHP
  - i. All incidents will be reported to the APTIM PM immediately.
    - 1. Employees are responsible for reporting ALL mishaps immediately to their employer or supervisor.

- 2. Employers and supervisors are responsible for reporting all "recordable mishaps" to the GDA within 24-hours after notification from the affected employee.
- ii. Severe accidents/fatalities or one or more hospitalized persons as inpatients as a result of a single occurrence will be reported to OSHA within 8 hours of incident and to the GDA immediately (also including "high hazard" mishaps and \$500,000 or greater accidental property damage).
- iii. ROICC/RPM/CSO will be notified of reportable accidents/incidents within 4 hours
- iv. APTIM will complete Incident Report within 24 hours of the event; submit to Navy within 72 hours.

#### 3. Permits

- i. APTIM maintains annual excavation permit from OSHA
- ii. Dig Alert will be notified 3 days before mobilization
- iii. Third party utility location will be performed upon mobilization

#### V. Project Scope

- 1. Project Schedule: A draft schedule for implementation of the project is listed below.
- 2. Meetings
  - a. A weekly CQC meeting will be conducted at the project site during field activities
  - b. A pre-final meeting will be conducted after completion of construction and site restoration activities to identify punch list items that need to be addressed.
  - c. A final meeting will be conducted after completion of punch list items.
- 3. Plans/Design Documents: The Final Work Plan with all applicable appendices was finalized in May 2016. The Final Work Plan Addendum was finalized on July 16.
  - a. Ms. Ng stated to make sure the personnel qualifications were up to date and make sure Mr. Lee Laws, APTIM PQCM, qualifications were submitted.
- 4. Field Work: Activities will include the following:
  - a. Mobilization of equipment, material and workers
  - b. Site preparation (pre-construction topo survey, project signs, install BMPs [including turbidity curtain], air monitoring, utility survey)
  - c. Import material
  - d. Stabilize seawalls
  - e. Protect and extend existing monitoring wells
  - f. Construct durable cover
    - 1. Inspect and repair existing buildings and building foundations

- 2. Prepare subgrade (includes spoil management site grading, compaction, and compaction testing)
- 3. Install durable cover (includes asphalt repair, new asphalt, swales)
- 4. Install one permanent survey monument
- g. Gamma Walkover Scan
- h. Install permanent fencing
- i. Final topo survey
- j. Site cleanup and demobilization
- k. O&M

#### 5. Reports:

- a. Remedial Action Completion Report (4 versions),
- b. Post-construction RA Fact Sheet (3 versions),
- c. Post-Construction O&M Manual Addendum (4 versions)
- d. Four (4) Quarterly O&M Inspection Reports (3 versions)
- 6. Data Management: All analytical data generated during the remedial action will be reviewed by the Project Chemist and submitted to the Navy Installation Restoration Information Solution (NIRIS).

#### VI. Project Execution

- 1. Work hours All work is expected to be completed between 0600 and 1630 (40 hour work week typical), five (5) days a week. Evening and weekend hours are not anticipated. APTIM to notify ROICC and CSO if extended hours are required. (Work not affected by tides.)
- 2. Site Security APTIM will be responsible for maintaining job site security during work hours.
  - a. Mr. Doug Delong, CSO Representative, states break-ins happen during the week. Navy security may to check on the Gun Mole Pier because access may be cut off by the Parcel D-1 Phase 2 work.
- 3. Competent Person APTIM will provide a competent superintendent to oversee field activities.
- 4. Subcontractors:
  - a. CBL Land Survey
  - b. ULS Utility Location
  - c. Earth Toxics Chemical Laboratory Analysis
  - d. Earth Toxics Air Monitoring Laboratory Analysis
  - e. TBD Import Fill Material

- f. Smith-Emery Geotechnical Analysis
- g. TBD Waste T&D
- h. Granite Paving
- i. E-Lab Data Validation
- 5. Photographs APTIM will document progress of the remedial activities by taking photographs before, during, and after field work occurs. A photo log and CD disk of digital images will be submitted to the RPM. Alternatively, the base can arrange for an individual to capture the different phases of the RA implementation.
- 6. Notifications The RPM will be notified by email or phone when each field work task is about to commence. The RPM will also be verbally briefed once a week on the progress of the project.
- 7. Method of Documenting Changes to Construction Drawings and Specifications. APTIM will submit RFIs on the ROICC-provided RFI form. Review submittal and approval process.
  - a. APTIM will use field work variance (FWV) forms for minor changes and use Request for Information (RFIs) for changes that may require contract modifications.
  - b. Submittals will be submitted to BRAC for approval.

#### VII. Schedule

See project schedule (revised with August 13 mobilization date).

A summary of Phase 2 major tasks is provided below.

Task Name (Phase 2)	Duration	Start	Finish
Pre-Construction Topo Survey - completed	N/A	N/A	N/A
Mobilization	3 days	8/13/2018	8/16/2018
Site Preparation, Utility Location	2 days	8/16/2018	8/17/2018
Air Monitoring	63 days	8/20/2018	11/15/2018
Existing Building Inspections/Repairs	15 days	8/20/2018	9/10/2018
Subgrade Preparation	20 days	8/20/2018	9/17/2018
Gamma Walkover Survey	19 days	9/7/2018	9/26/2018
Seawall Stabilization	20 days	9/28/2018	10/25/2018
Install Durable Cover (Paving)	15 days	10/26/2018	11/15/2018
Extend Existing Monitoring Wells	3 days	11/16/2018	11/20/2018
Install Permanent Fence	10 days	11/21/2018	12/6/2018
Final Topo Survey, Install Monument	3 days	12/7/2018	12/10/2018

Task Name (Phase 2)	Duration	Start	Finish
Site Cleanup and Demobilization	2 days	12/10/2018	12/11/2018

APTIM shall notify Battelle prior to beginning the gamma walkover survey.

The above schedule does not include Parcels C and F field work, which is scheduled to begin in Fall 2018.

#### VIII. General Discussion

Ms. Howard stated there are four (4) wells located in Phase 2 that Trevet was scoped to repair. APTIM shall coordinate with Trevet. Trevet is scheduled to sample in September. Leo Larson is the Navy RPM for that project.

APTIM noted mastic tiles were observed in some of the Phase 2 buildings. Samples would be collected for health and safety purposes. The Navy will be notified if asbestos is present and may require a contract modification.

# PRE-CONSTRUCTION AND MUTUAL UNDERSTANDING MEETING REMEDIAL ACTION IN PARCEL D-1, PHASE II HUNTERS POINT NAVAL SHIPYARD, SAN FRANCISCO, CALIFORNIA N62473-17-D-0006, CTO N62473-17-F-4550

## Tuesday, July 24, 2018 at 1100

#### SIGN IN SHEET

Organization, Title	Signature
APTIM PM	RK 3/1
APTIM CONSTRUCTION	31-
APTIM 58180	mark Ega
Navy BRAC	Whe Howard
Nay BRAL	nn
	Samtel
Aptim Field Engineer	Cent Unit.
Aptim, Project Ens.	MISC
Habelle APTIM	Mafallhlyl.
It des NAVY	SAT.
MANY BRAC	
- 2 Matz	PAPTIM QCM
	APTIM PM  APTIM CONSTRUCTION MOR  APTIM SSMO  Navy BRAC  Navy BRAC  Aptim Field Engineer  Aptim, Pissed Ens.  Hallholinh majory  MANY  MANY BRAC

# PRE-CONSTRUCTION AND MUTUAL UNDERSTANDING MEETING REMEDIAL ACTION IN PARCEL D-1, PHASE II HUNTERS POINT NAVAL SHIPYARD, SAN FRANCISCO, CALIFORNIA N62473-17-D-0006, CTO N62473-17-F-4550

# Tuesday, July 24, 2018 at 1100

#### SIGN IN SHEET

Name	Organization, Title	Signature
Ray Schul	APTIM RSO	via phone
Jim Click	APTIM Const. Ngr	via phone via phone via phone
he Laws	APTIM PQCM	via plume
		•

	Data Date: 15-Sep-17	<u> </u>	1 of 6	15	le	0010
ath	WBS	Activity ID	Activity Name	Original Start	Finish	2018 2019 2020 
O 4550 Radio	logical Work Tasks at	Parcels C, D-1, and	l F, Hunters Point Naval Shipyard	757 15-Sep-17	16-Sep-20	<u> </u>
Project Miles	stones			757 15-Sep-17	16-Sep-20	<u> </u>
00	501008.00	PPP	Project Execution	757 15-Sep-17	16-Sep-20	
00	501008.00	PAN	Project Award Notice Anticipated	0 15-Sep-17	. o o o p = o	<b>→</b>
00	501008.00	BOND	Bond Submittal	0	28-Sep-17	
Nork Elemei	nt 1- Project Manage	ment Support		757 15-Sep-17	16-Sep-20	<u> </u>
	mt - Project Manage	• •	ative Support	757 15-Sep-17	16-Sep-20	(*************************************
1.1	501008.1.1	01002110	Project Management and Support	757 15-Sep-17	16-Sep-20	
1.1	501008.1.1	04002471	Bond	1 29-Sep-17	29-Sep-17	
1.1	501008.1.1	04002471	Procurement	155 12-Mar-18	18-Oct-18	
1.1	501008.1.1	04002451	Project Closeout	5 10-Sep-20	16-Sep-20	
1.1	501008.1.1	6007280	Contingency	1 16-Sep-20	16-Sep-20	
1.1	501008.1.1	6007290	SF Business Tax	1 16-Sep-20	16-Sep-20	<u> </u>
	lum of Understanding		Of Business lax	756 15-Sep-17	15-Sep-20	<del></del>
1.2	501008.1.2	01002120	Memorandum of Understanding (MOU)	756 15-Sep-17	15-Sep-20	
			Memorandam of Onderstanding (MOO)	757 15-Sep-17	16-Sep-20	
	nt 2 - Project Meeting					
	eeting/Formal Site Vi			8 26-Sep-17	05-Oct-17	
2.1	501008.2.1	02002211	Kick-off Meeting/Formal Site Visit	0 26-Sep-17	26-Sep-17	
2.1	501008.2.1	02002231	Kick-off Meeting Minutes	8 26-Sep-17	05-Oct-17	
Base Clos	ure Team Meetings (E	BCT Meetings)		750 26-Sep-17	16-Sep-20	
2.2	501008.2.2	02002221	BRAC Closure Team (BRAC)/Project Team Meetings (#1 - #6)	750 26-Sep-17	16-Sep-20	
Communit	y Meetings			750 26-Sep-17	16-Sep-20	
2.3	501008.2.3	02002220	Community Meetings (2 per year)	750 26-Sep-17	16-Sep-20	
	r Coordination Meeting			757 15-Sep-17	16-Sep-20	<u> </u>
2.4	501008.2.4	02002240	Contractor Coordination Meeting (#1 - #3)	757 15-Sep-17	16-Sep-20	
	nt 3 - Planning Docur		Solition Social matter mosting (iii iii)	757 15-Sep-17	16-Sep-20	
			CAD and Mark Instructions	757 15-Sep-17	16-Sep-20	
			v. SAP and Work Instructions	·	·	
3.1	501008.3.1	03002320	Work Instructions (6 total)	757 15-Sep-17	16-Sep-20	—   <mark>                                  </mark>
3.1	501008.3.1	03002310	Internal Draft Work Plan	4 26-Sep-17	29-Sep-17	
3.1	501008.3.1	03002311	Navy Review of Internal Draft Work Plan (21 Calendar Days)	15 02-Oct-17	20-Oct-17	
3.1	501008.3.1	03002312	Respond to Navy Comments on the Internal Draft Work Plan	2 23-Oct-17 1 25-Oct-17	24-Oct-17 25-Oct-17	— : :¦:  : : : : : : : : : : : : : : : :
3.1	501008.3.1 501008.3.1	03002313 03002318	Navy Review and Comment  Issue Final Work Plan	3 26-Oct-17	30-Oct-17	
	listorical District Wor		ISSUE FINAL WORK FIAM	276 15-Sep-17	18-Oct-18	
				·		
3.3	501008.3.3	6006780	Internal Draft Work Plan	64 15-Sep-17	15-Dec-17	
3.3	501008.3.3	6006740	Navy Review of Internal Draft Work Plan (30 Calendar Days[extended review])	58 18-Dec-17	12-Mar-18	
3.3	501008.3.3 501008.3.3	6006800 6007300	Prepare Revised Internal Draft Work Plan  Navy Review of Revised Internal Draft Work Plan	10 13-Mar-18 17 27-Mar-18	26-Mar-18	
3.3	501008.3.3	6007310	Repond to Navy Comments on the Revised Internal Draft Work Plan	17 27-Mar-18 13 20-Apr-18	19-Apr-18	: :::::::::::::::::::::::::::::::::
3.3	501008.3.3	6007310	Navy Review of RTC on the Revised Internal Draft Work Plan	6 08-May-18	08-May-18 15-May-18	
3.3	501008.3.3	6007320	Prepare SAP for QAO Submittal	1 16-May-18	16-May-18	
3.3	501008.3.3	6007340	QAO Review of Draft SAP	31 17-May-18	29-Jun-18	
3.3	501008.3.3	6006710	Issue Draft Work Plan	5 02-Jul-18	09-Jul-18	— : ::::::::::::::::::::::::::::::::::
3.3	501008.3.3	6006790	Prepare SHPO Letter	5 02-Jul-18	09-Jul-18	
3.3	501008.3.3	6006760	Regulatory Review of Draft Work Plan (45 Calendar Day Review)	30 10-Jul-18	20-Aug-18	
3.3	501008.3.3	6006730	Prepare and Issue Response to Comments on the Draft Work Plan	22 21-Aug-18	20-Sep-18	
3.3	501008.3.3	6006720	Navy Review of Response to Comments on the Draft Work Plan (21 Calendar Days)	15 21-Sep-18	11-Oct-18	
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Project Ba	seline Bar ◆ ◆	Milestone	Project Schedule - Delivery Order: N6247317F4550			
Actual Wor	rk 🕶	Summary	Parcel C, Parcel D-1, Parcel F, Hunters Point Naval Shipyard,			
Remaining		-	San Francisco, CA			
J						ADTIM
Uritical Re	maining Work					APTIM

h	WBS	Activity ID	Activity Name	Original Start	Finish	2018	2019	1	2020
						ISONDIFMAMIJASONDIFV	NCEALLMA	DJFMAV	1JJA!
3.3	501008.3.3	6006750	Respond to Regulatory Comments and Issue Final Work Plan	5 12-Oct-18	18-Oct-18		711212171		1-1-1-1
	Durable Cover Work I		Theopena to Hegalatery Commonte and 10000 Final Weller half	209 15-Sep-17	16-Jul-18				
3.4	501008.3.4	6006910	Internal Draft Work Plan	22 15-Sep-17	16-Oct-17				
3.4	501008.3.4	6006910	11 11 11 11 11	22 15-Sep-17 22 17-Oct-17	15-Nov-17			, <del>     </del>	
			Navy Review of Internal Draft Work Plan (30 Calendar Days)			- i :₹ <mark>,</mark> ::::::::::::::::::::::::::::::::::::			
3.4	501008.3.4	6006900	Respond to Navy Comments on the Internal Draft Work Plan	10 16-Nov-17	01-Dec-17	— : ::: <sup>™</sup> _:::::::::::::::::::::::::::::::::			
3.4	501008.3.4	6006830	Navy Review and Comment	15 04-Dec-17	22-Dec-17				
3.4	501008.3.4	6006840	Issue Draft Work Plan	1 26-Jan-18	26-Jan-18	_			
3.4	501008.3.4	6006890	Regulatory Review of Draft Work Plan	62 29-Jan-18	25-Apr-18		+	; <del> </del>	
3.4	501008.3.4	6006860	Prepare and Issue Response to Comments on the Draft Work Plan	17 26-Apr-18	18-May-18				
3.4	501008.3.4	6006850	Navy Review of Response to Comments on the Draft Work Plan (14 Calendar Days)	15 21-May-18	11-Jun-18	_			
3.4	501008.3.4	6006920	Issue Draft Final Work Plan	3 12-Jun-18	14-Jun-18	-			
3.4	501008.3.4	6006930	Agency Concurrence of Draft Final Work Plan (30 Calendar Days)	22 14-Jun-18	16-Jul-18	_			
3.4	501008.3.4	6006880	Issue Final Work Plan	1 16-Jul-18	16-Jul-18				
Parcel F St	tructures (Piers and S	ubmarine Pens)		203 15-Sep-17	06-Jul-18				
3.5	501008.3.5	6007040	Internal Draft Work Plan	53 15-Sep-17	30-Nov-17				
3.5	501008.3.5	6007000	Navy Review of Internal Draft Work Plan (30 Calendar Days)	39 01-Dec-17	29-Jan-18				
3.5	501008.3.5	6007030	Respond to Navy Comments on the Internal Draft Work Plan	31 09-Jan-18	20-Feb-18				
3.5	501008.3.5	6006960	Navy Review and Comment	1 21-Feb-18	21-Feb-18				
3.5	501008.3.5	6006970	Issue Draft Work Plan	6 21-Feb-18	28-Feb-18		,		
3.5	501008.3.5	6007020	Regulatory Review of Draft Work Plan (45 Calendar Day Review)	70 01-Mar-18	22-May-18				
3.5	501008.3.5	6006990	Prepare and Issue Response to Comments on the Draft Work Plan	21 23-May-18	21-Jun-18				
3.5	501008.3.5	6006980	Navy Review of Response to Comments on the Draft Work Plan (21 Calendar Days)	13 08-Jun-18	26-Jun-18				
3.5	501008.3.5	6007010	Issue Final Work Plan	7 27-Jun-18	06-Jul-18				
	g Planning Documents			276 15-Sep-17	18-Oct-18	Name and the second sec	, , , , , , , , , , , , , , , , , , ,		
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			nd Health Plan and Accident Prevention Plan)	<u> </u>					
3.2.1	501008.3.2.1	03003211	Internal Draft Final HSP/APP	3 26-Sep-17	28-Sep-17				
3.2.1	501008.3.2.1	03003212	Navy Review of Internal Draft Final HSP/APP	22 29-Sep-17	30-Oct-17				
3.2.1	501008.3.2.1	03003213	Respond to Navy Comments and Issue Final	2 31-Oct-17	01-Nov-17				
Environn	mental Protection Plan			276 15-Sep-17	18-Oct-18				
3.2.2	501008.3.2.2	03002322	Environmental Protection Plan (Included in Parcel C SAP)	276 15-Sep-17	18-Oct-18				
ц	tor Quality Control (CO			32 15-Sep-17	30-Oct-17	<mark> </mark>   <del>√ </del> - - - - - - - - - - - - - - - - - -			
3.2.3	501008.3.2.3	03002323	Construction Quality Control (CQC) and Wests Management Plan	·	30-Oct-17	<mark>-</mark>    ::::::::::::::::::::::::::::::::::			
		03002323	Construction Quality Control (CQC) and Waste Management Plan	32 15-Sep-17					
	n Protection Plan			145 26-Sep-17	24-Apr-18				
3.2.4	501008.3.2.4	03002324	Radiation Protection Plan	145 26-Sep-17	24-Apr-18		<u>                                     </u>	<u> </u>	<u> </u>
Vork Elemer	nt 4 - Field Work Activi	ties		724 01-Nov-17	16-Sep-20		1		
Pre-Constr	ruction Activities			724 01-Nov-17	16-Sep-20				+++
		tion.		724 01-Nov-17	16-Sep-20				1 1 1 1
	ry Construction Facili								
4.0.1	501008.4.0.1	04002402	Temporary Construction Facilities	724 01-Nov-17	16-Sep-20				
4.0.1	501008.4.0.1	6007250	Construction Management	724 01-Nov-17	16-Sep-20				
4.0.1	501008.4.0.1	6007260	Radiological Management	724 01-Nov-17	16-Sep-20	<u> </u>		_	
Mobilizat	tion/Demobilization			543 24-Jul-18	16-Sep-20				
4.0.2	501008.4.0.2	04002403	Pre-Construction Meeting	1 24-Jul-18	24-Jul-18				
4.0.2	501008.4.0.2	04002404	Mobilization	3 06-Aug-18	08-Aug-18				
4.0.2	501008.4.0.2	04002405	Permitting and Notifications	4 19-Oct-18	24-Oct-18		,		
4.0.2	501008.4.0.2	040024051	Parcel F Demobilization	5 07-Feb-19	13-Feb-19				
4.0.2	501008.4.0.2	04002408	Demobilization	2 15-Sep-20	16-Sep-20				
Site Secu		3 1002 100		534 06-Aug-18	16-Sep-20				+ + + +
_	<u> </u>	04000440	Cita Cagurity Carriaga			<mark>-</mark>			
4.0.4	501008.4.0.4	04002410	Site Security Services	534 06-Aug-18	16-Sep-20				
Project Bas	seline Bar ◆ ◆	Milestone	Project Schedule - Delivery Order: N6247317F4550						
•			Parcel C, Parcel D-1, Parcel F, Hunters Point Naval Shipyard,						
Actual Wor		Summary	San Francisco, CA						
Remaining	) Work								
_	maining Work					APTIM	Λ		
	maning vvoil				1	A E I IIV	/II		

h	ta Date: 15-Sep-17	Activity ID	3 of 6 Activity Name	)riginal Start	Finish		2018		20	19		2020
				uration		SONDJEV		SOND,			DJFMA	MUJJAS
Air Monitor	ring			63 13-Aug-18	08-Nov-18		V-	<b>-</b>				
4.0.5	501008.4.0.5	6006600	Air Monitoring-Parcel D-1	63 13-Aug-18	08-Nov-18	<b>-</b>						
4.0.5	501008.4.0.5	04002411	Air Monitoring-Parcel C	0 19-Oct-18	19-Oct-18							
Site Mainte	nance			534 06-Aug-18	16-Sep-20		· · · · · · · · · · · · · · · · · · ·				<del>                                      </del>	++++
4.0.6	501008.4.0.6	04002412	Site Maintenance	534 06-Aug-18	16-Sep-20	=						
	orm Drain/Sewer Li			36 19-Oct-18	11-Dec-18		;	<b>V</b>			-;;;;;;	-;;;;
Pre-Constr				5 19-Oct-18	25-Oct-18			₩				
4.1.1	501008.4.1.1	04002409	Utility Clearance	1 19-Oct-18	19-Oct-18	-						
4.1.1	501008.4.1.1	04002409	Install Turbidity Curtain	2 19-Oct-18	22-Oct-18			i i				
4.1.1	501008.4.1.1	04004110	Set up staging areas	1 19-Oct-18	19-Oct-18							
4.1.1	501008.4.1.1	04002421	Background WQ Monitoring/Sampling	3 23-Oct-18	25-Oct-18							
SS/SD Inve		04002421	Background *** wormoning/ournpling	25 22-Oct-18	27-Nov-18			<b>—</b>				
	501008.4.1.2	04002431	DPT Sampling SS/SDs	5 22-Oct-18	26-Oct-18	-		n				
4.1.2 4.1.2	501008.4.1.2	04002431	Site Restoration	5 22-Oct-18	26-Oct-18							
4.1.2	501008.4.1.2	6007120	Sample Analysis (21 cday analysis, shipping, reporting)	20 29-Oct-18	27-Nov-18							
	vestigation	0007120	Joannpie Analysis (21 cday analysis, shipping, reporting)	23 22-Oct-18	21-Nov-18	<del> </del>  - - - - -		<b>~</b>			+	
		0007100	Marketa Cleaning/Consuling									
4.1.3 4.1.3	501008.4.1.3 501008.4.1.3	6007130 6007140	Manhole Cleaning/Sampling	3 22-Oct-18 20 25-Oct-18	24-Oct-18 21-Nov-18							
		6007140	Sample Analysis (21 cday analysis, shipping, reporting)	36 19-Oct-18	11-Dec-18	<b>-</b>		<del>-</del>				
Outfall Inve												
4.1.4	501008.4.1.4	6007150	Turbidity Curtain	17 19-Oct-18	12-Nov-18				-  -  -  -  -  -  -  -  -  -  -  -  -  -			
4.1.4	501008.4.1.4	6007160	Outfall Investigation	5 29-Oct-18	02-Nov-18	-						
4.1.4	501008.4.1.4	6007170	Sample Analysis (21 cday analysis, shipping, reporting)	20 05-Nov-18	04-Dec-18							
	utfall Area	,		25 05-Nov-18	11-Dec-18							
4.1.4.5	501008.4.1.4.5	6007350	Establish SU, Scan 100%	2 05-Nov-18	06-Nov-18							
4.1.4.5	501008.4.1.4.5	6007360	Follow Ups	1 07-Nov-18	07-Nov-18	4	; ; - <del>;</del> - <del>;</del> - ; - ; - ;					
4.1.4.5	501008.4.1.4.5	6007370	Sampling	2 08-Nov-18	09-Nov-18							
4.1.4.5	501008.4.1.4.5	6007380	Sample Analysis (21 cday analysis, shipping, reporting)	20 12-Nov-18	11-Dec-18							
Post-Const				6 12-Nov-18	19-Nov-18			<b>.</b>				
4.1.5	501008.4.1.5	6007400	Remove Turbidity Curtain	1 12-Nov-18	12-Nov-18							
4.1.5	501008.4.1.5	6007410	Waste Management	2 13-Nov-18	14-Nov-18	4	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;					
4.1.5	501008.4.1.5	6007420	Equipment/Material Decon	2 15-Nov-18	16-Nov-18							
4.1.5	501008.4.1.5	6007430	Demobilization	1 19-Nov-18	19-Nov-18			<u> </u>				
Parcel D-1 Du	urable Cover			80 09-Aug-18	03-Dec-18							
Clearing, G	rubbing, and Subg	rade Preparation		22 09-Aug-18	10-Sep-18			<b>7</b>				
4.2.1	501008.4.2.1	04004213	Site Preparation/Clearing and Grubbing (SWPP, Temp Fence Install)	2 09-Aug-18	10-Aug-18							
4.2.1	501008.4.2.1	6006610	Utility Clearance	1 10-Aug-18	10-Aug-18							
4.2.1	501008.4.2.1	04004215	Sub Grade Preparation - New Asphalt Placement/Asphalt Replacement Areas	20 13-Aug-18	10-Sep-18			]				
Gamma Ra	diation Walkover S	urvey		29 30-Aug-18	10-Oct-18		▼	7				
4.2.2	501008.4.2.2	04004220	Gamma Walk Over Survey	14 30-Aug-18	19-Sep-18							
4.2.2	501008.4.2.2	04004221	Data Review	19 30-Aug-18	26-Sep-18							
4.2.2	501008.4.2.2	04004222	Follow Up Statics	5 20-Sep-18	26-Sep-18			0				
4.2.2	501008.4.2.2	04004225	Review Data and Prepare Data Package	5 27-Sep-18	03-Oct-18			0				
4.2.2	501008.4.2.2	04004226	RASO Review and Approval of Packages	5 04-Oct-18	10-Oct-18			1				
Existing Bu	ilding Foundation	S		15 13-Aug-18	31-Aug-18			7				
4.2.3	501008.4.2.3	04004230	Existing Bldg Foundations - Inspection & Repair	15 13-Aug-18	31-Aug-18							
Stormwate	r Drainage			24 17-Sep-18	18-Oct-18			<b>V</b>				
4.2.4	501008.4.2.4	04004240	Install Turbidity Curtain	4 17-Sep-18	20-Sep-18	-						
Project Basel Actual Work Remaining W	<del></del>	Milestone Summary	Project Schedule - Delivery Order: N6247317F4550 Parcel C, Parcel D-1, Parcel F, Hunters Point Naval Shipyard, San Francisco, CA					1				
Critical Rema							/	APT	IM			
United intilla	uning VVOIR						F		1141			

h		WBS	Activity ID	Activity Name	)riginal Start	Finish		2018		2019		2020
			. louvily 1D		, Jiginal Jan		SUNDIF		JNDJFMAN			JJA
4	.2.4	501008.4.2.4	04004241	Shoreline Armoring	20 21-Sep-18	18-Oct-18		[7]				
		501008.4.2.4	04004242	Drainage Swale Stabilization	10 21-Sep-18	04-Oct-18						
	1.2.4	501008.4.2.4	04004243	Turbidity Curtain	20 21-Sep-18	18-Oct-18						
		Pavement	0 100 12 10	Tarbiarty Gartain	15 19-Oct-18	08-Nov-18			<del>**</del>			
			0.400.4050	D 11 0 5 11 A 1 11 D 1								
		501008.4.2.5	04004250	Durable Cover - Existing Asphalt Repair	15 19-Oct-18	08-Nov-18						
		501008.4.2.5	04004251	Durable Cover - New Asphalt Pavement	8 19-Oct-18	30-Oct-18	<b>-</b>		-			
		nitoring Wells			3 09-Nov-18	13-Nov-18						
4	.2.6	501008.4.2.6	04004260	Protection of Existing Wells	3 09-Nov-18	13-Nov-18						
Sit	e Survey				12 14-Nov-18	03-Dec-18			<b>- 7</b>			
4	.2.7	501008.4.2.7	04002407	Permanent Fence Installation	10 14-Nov-18	29-Nov-18						
		501008.4.2.7	04004270	Site Survey - Final	2 30-Nov-18	03-Dec-18						
		tures (Piers and S			74 19-Oct-18	06-Feb-19			<del></del>			1 1 1 1 1 1 1 1 1
-		-			67 19-Oct-18	28-Jan-19						
		Surveys of Finge							· • • • • • • • • • • • • • • • • • • •			<u>.</u>
-		501008.4.3.1	04004310	Characterization Survey	20 19-Oct-18	15-Nov-18						
		501008.4.3.1	6007180	Data Review	25 19-Oct-18	26-Nov-18			<b>-</b>			
		501008.4.3.1	6007190	Follow Up Statics/Biased Samples	4 27-Nov-18	30-Nov-18						
		501008.4.3.1	6007200	Ship Biased Samples, Logged by Lab	3 03-Dec-18	05-Dec-18						
		501008.4.3.1	6007210	Sample Analysis	20 06-Dec-18	07-Jan-19						; ; ; ; ;;+
		501008.4.3.1	6007220	Review Data and Prepare Data Package	10 08-Jan-19	21-Jan-19						
	.3.1	501008.4.3.1	6007230	RASO Review and Approval of Packages	5 22-Jan-19	28-Jan-19			<u> </u>			
Ra	diological	<b>Surveys of Subn</b>	narine Pens		54 16-Nov-18	06-Feb-19						
4	.3.2	501008.4.3.2	04004320	Gamma Walk Over Survey/Collect Systematic Samples	10 16-Nov-18	03-Dec-18	<del>-</del>					
		501008.4.3.2	04004321	Data Review	15 16-Nov-18	10-Dec-18						
		501008.4.3.2	04004322	Follow Up Statics/Biased Samples	2 11-Dec-18	12-Dec-18				1-1-1-1-1-1-		iii
		501008.4.3.2	04004323	Ship Biased Samples, Logged by Lab	2 13-Dec-18	14-Dec-18						1 1 1 1 1 1 1 1 1
		501008.4.3.2	04004324	Sample Analysis	20 17-Dec-18	16-Jan-19						
		501008.4.3.2	04004325	Review Data and Prepare Data Package	10 17-Jan-19	30-Jan-19			T <sub>i</sub>			
	1.3.2	501008.4.3.2	04004326	RASO Review and Approval of Packages	5 31-Jan-19	06-Feb-19			-			1 1 1 1
		and Truck Wash	04004020	Throo review and ripproval of Lacitages	724 01-Nov-17	16-Sep-20						
							_			<u> </u>	<u> </u>	
Po	rtal Monit	or/Truck Wash			724 01-Nov-17	16-Sep-20						
4	.4.1	501008.4.4.1	04004410	Portal Monitor and Truck Wash (130 nonconsecutive da	- 1 - 2 - 7	16-Sep-20					1 1 1 1 1	i i i
ork E	Element 5	<ul> <li>Reports and Date</li> </ul>	a Submittal		496 26-Sep-17	13-Sep-19	1 M 1 1 1 1 1 1					
Parce	el C Remo	val Action Comp	letion Report (Exc	uding Historic District and Buildings 211 and 25	183 26-Sep-17	18-Jun-18	<u> </u>	<del></del>				
0000		501008.5.1	05000510	Prepare Internal Draft Removal Action Completion Repo		20-Dec-17						
5.1		501008.5.1	05000510	Navy Review of Internal Draft Removal Action Completion	·							
5.1						15-Jan-18						
5.1		501008.5.1	05000512	Respond to Navy Comments and Issue Draft Removal		14-Feb-18						
5.1		501008.5.1	05000513	Regulatory Review of Draft Removal Action Completion		03-Apr-18	-					
5.1		501008.5.1	05000514	Prepare and Issue Draft Final Removal Action Completi		18-May-18						
5.1		501008.5.1	05000515	Navy Review of Draft Final Removal Action Completion		11-Jun-18						
5.1		501008.5.1	05000516	Respond to Regulatory Comments and Issue Final Rem		18-Jun-18		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Parce	el C Histo	ric District Remo	val Action Comple	ion Report	183 12-Dec-18	03-Sep-19						
5.2		501008.5.2	05000520	Prepare Internal Draft Report	60 12-Dec-18	08-Mar-19						
5.2		501008.5.2	05000521	Navy Review of Internal Draft Report (21 Calendar Days	) 15 11-Mar-19	29-Mar-19						
5.2		501008.5.2	05000522	Respond to Navy Comments and Issue Draft Report	22 01-Apr-19	01-May-19						
5.2		501008.5.2	05000523	Regulatory Review of Draft Report (45 Calendar Day Re	view) 33 02-May-19	18-Jun-19				<b>=</b>		
5.2		501008.5.2	05000524	Prepare and Issue Draft Final Report	33 19-Jun-19	05-Aug-19						
5.2		501008.5.2	05000525	Regulatory Review of Draft Final Report	15 06-Aug-19	26-Aug-19						
5.2		501008.5.2	05000526	Respond to Regulatory Comments and Issue Final Repo		03-Sep-19						
					· · · · · ·	I						
⁼ Proje	ect Baselin	e Bar       ♦	Milestone	Project Schedule - Delivery Order: N	l6247317F4550							
Actu	al Work		Summary	Parcel C, Parcel D-1, Parcel F, Hunt	ers Point Naval Shipyard,							
- , ισια		, ,	Jannary	San Francisco, CA								
	aining Wo	rK										
Rem	.a.i.i.g								C TIAA			
	cal Remair	ning Work						Λ	PTIM			

th	WBS	Activity ID	Activity Name	)riginal Start	Finish	Jeloinio .	2018 	3 2019 Taleloinid il Finandi il alsioi	2020 ND 1 E M A M 1 1 A
Parcel D-1	Phase II Remedial Ad	tion Closure Ren	ort	153 04-Dec-18	12-Jul-19	Nalaida	I. I M AI MAIA		M D J F M A M J J A
						-			
5.3	501008.5.3 501008.5.3	05000530	Prepare Internal Draft Remedial Action Closure Report	30 04-Dec-18	17-Jan-19 07-Feb-19	-			
5.3		05000531	Navy Review of Internal Draft Remedial Action Closure Report (21 Calendar Days)	15 18-Jan-19 22 08-Feb-19					
5.3	501008.5.3 501008.5.3	05000532 05000533	Respond to Navy Comments and Issue Draft Remedial Action Closure Report	33 12-Mar-19	11-Mar-19				
5.3	501008.5.3	05000533	Regulatory Review of Draft Remedial Action Closure Report (45 Calendar Day Review)	33 12-Mar-19 33 29-Apr-19	26-Apr-19		<del> </del>	<u></u>	
5.3	501008.5.3	05000534	Prepare and Issue Draft Final Remedial Action Closure Report  Navy Review of Draft Final Remedial Action Closure Report	15 14-Jun-19	13-Jun-19 05-Jul-19	-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
5.3	501008.5.3	05000536	Respond to Regulatory Comments and Issue Final Remedial Action Closure Report	5 08-Jul-19	12-Jul-19			: : : : : : : : : : : : : : : : : : :	
5.3	truction Operation an			83 29-Apr-19	23-Aug-19				
			, ,						
5.4	501008.5.4	05000540	Prepare Internal Draft O&M Plan	14 29-Apr-19	16-May-19			; ;	
5.4	501008.5.4	05000541	Navy Review of Internal Draft O&M Plan (21 Calendar days)	15 17-May-19	07-Jun-19	-1111111			
5.4	501008.5.4	05000542	Respond to Navy Comments and Issue Draft O&M Plan	10 10-Jun-19	21-Jun-19				
5.4	501008.5.4	05000543	Regulatory Review of Draft O&M Plan (45 Calendar Day Review)	34 24-Jun-19	09-Aug-19		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
5.4	501008.5.4	05000546	Respond to Regulatory Comments and Issue Final O&M Plan	10 12-Aug-19	23-Aug-19				
Remedial A	Action Fact Sheet			30 08-Jul-19	16-Aug-19				
5.5	501008.5.5	05000550	Prepare Internal Draft Remedial Action Fact Sheet	5 08-Jul-19	12-Jul-19				
5.5	501008.5.5	05000551	Navy Review of Internal Draft Remedial Action Fact Sheet (21 Calendar Days)	15 15-Jul-19	02-Aug-19				
5.5	501008.5.5	05000552	Respond to Navy Comments and Issue Final Remedial Action Fact Sheet	10 05-Aug-19	16-Aug-19				
<b>Naval Insta</b>	allation Resoration In	formation Systems	S	5 31-Jan-19	06-Feb-19				
5.6	501008.5.6	05000560	Naval Installation Restoration Systems (NIRIS) Upload	5 31-Jan-19	06-Feb-19		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	: : : : : : <b>: :</b> : : : : : : : : :	
	tructures Characteriz			153 29-Jan-19	04-Sep-19	##-#-#-#	·;;;;;;;	:-:-:-: <del> </del> :::-: <del>  :::-:-:- - </del> :::	
					11-Mar-19				
5.7	501008.5.7 501008.5.7	05000570 05000571	Prepare Internal Draft Characterization Survey Report  Navy Review of Internal Draft Characterization Survey Report (21 Calendar Days)	30 29-Jan-19 15 12-Mar-19					
5.7	501008.5.7				01-Apr-19				
5.7		05000572	Respond to Navy Comments and Issue Draft Characterization Survey Report	22 02-Apr-19	02-May-19	-111111			
5.7	501008.5.7	05000573	Regulatory Review of Draft Characterization Survey Report (45 Calendar Day Review)	33 03-May-19	19-Jun-19			<u> </u>	
5.7	501008.5.7	05000574	Prepare and Issue Draft Final Characterization Survey Report	33 20-Jun-19	06-Aug-19	-			
5.7 5.7	501008.5.7 501008.5.7	05000575 05000576	Navy Review of Draft Final Characterization Survey Report	15 07-Aug-19	27-Aug-19				
	tructures Characteriz		Respond to Regulatory Comments and Issue Final Characterization Survey Report	5 28-Aug-19 153 07-Feb-19	04-Sep-19 13-Sep-19				
5.8	501008.5.8	6007110	Prepare Internal Draft Characterization Survey Report	30 07-Feb-19	20-Mar-19		; ;-;-;-;-;-;-;-;-;-;-;-	; ;	
5.8	501008.5.8	6007070	Navy Review of Internal Draft Characterization Survey Report (21 Calendar Days)	15 21-Mar-19	11-Apr-19	-111			
5.8	501008.5.8	6007100	Respond to Navy Comments and Issue Draft Characterization Survey Report	22 12-Apr-19	13-May-19	-			
5.8	501008.5.8	6007090	Regulatory Review of Draft Characterization Survey Report (45 Calendar Day Review)	33 14-May-19	28-Jun-19	-11111			
5.8	501008.5.8	6007060	Prepare and Issue Draft Final Characterization Survey Report	33 01-Jul-19	15-Aug-19	-			
5.8	501008.5.8	6007050	Navy Review of Draft Final Characterization Survey Report	15 16-Aug-19	06-Sep-19			├	
5.8	501008.5.8	6007080	Respond to Regulatory Comments and Issue Final Characterization Survey Report	5 09-Sep-19	13-Sep-19				
Vork Elemei	nt 6 - Maintenance of	Remedies		724 01-Nov-17	16-Sep-20				
Durable Co	over Operation and M	laintenance		268 05-Mar-19	25-Mar-20			· · · · · · · · · · · · · · · · · · ·	
6.1	501008.6.1	06006100	Quarter 1 Inspection, Maintenance, and Repair	5 05-Mar-19	11-Mar-19				
6.1	501008.6.1	06006101	Quarter 1 Inspection Report	5 12-Mar-19	18-Mar-19				
6.1	501008.6.1	06006102	Quarter 2 Inspection, Maintenance, and Repair	5 05-Jun-19	11-Jun-19		:::		
6.1	501008.6.1	06006103	Quarter 2 Inspection Report	5 12-Jun-19	18-Jun-19				
6.1	501008.6.1	06006104	Quarter 3 Inspection, Maintenance, and Repair	5 05-Sep-19	11-Sep-19	7:  :  :  :  :			
6.1	501008.6.1	06006105	Quarter 3 Inspection Report	5 12-Sep-19	18-Sep-19				
6.1	501008.6.1	06006106	Quarter 4 Inspection, Maintenance, and Repair	5 25-Nov-19	03-Dec-19				
6.1	501008.6.1	06006107	Quarter 4 Inspection Report - Annual Report Prepare Internal Draft	10 04-Dec-19	17-Dec-19		·	,-,-;-;-;-;-;-;-;-;-;-;-;-;-;-;-;-;-;-;	
6.1	501008.6.1	06006108	Quarter 4 Inspection Report - Annual Report Navy Review Internal Draft (21 Calendar	15 18-Dec-19	10-Jan-20				
6.1	501008.6.1	06006109	Quarter 4 Inspection Report - Annual Report Respond to Navy Comments and Issue I	10 13-Jan-20	24-Jan-20	7:11: 1: 1: 1:			
6.1	501008.6.1	06006110	Quarter 4 Inspection Report - Annual Report Navy/Agencies Review of Draft (45 caler	33 27-Jan-20	11-Mar-20				
' Project Ba	seline Bar 🛕 🛕	Milestone	Project Schedule - Delivery Order: N6247317F4550						
-			Parcel C, Parcel D-1, Parcel F, Hunters Point Naval Shipyard,						
Actual Wor	rk	Summary	San Francisco, CA					4	
Remaining	g Work		San i ianoiscu, CA						
J	maining Work							APTIM	
- United ne	maning Work				1			AL IIM	

Run	Date: 23-Jul-18 Da	ata Date: 15-Sep-17		6 of 6										
WBS P	ath	WBS	Activity ID	Activity Name	)riginal	Start	Finish			2018		2019		2020
					uration			SOND	JFMA	MJJA	SUNC	JFMAMJJAS	JNDJF	NCSALLNAM
	6.1	501008.6.1	06006111	Quarter 4 Inspection Report - Annual Report Respond to Comments and Issue Final	10	12-Mar-20	25-Mar-20							
	Maintenance	of Radiological Contr	ols, Postings, a	nd Routine Surveys	724	01-Nov-17	16-Sep-20		1 1 1					
	6.2	501008.6.2	06006200	Maintenance of Radiological Controls, Postings, and Routine Surveys	724	01-Nov-17	16-Sep-20							
	Stockpile Tra	acking			724	01-Nov-17	16-Sep-20	<b>-</b>						<u> </u>
	6.3	501008.6.3	06006300	Stockpile Tracking	724	01-Nov-17	16-Sep-20		1 1 1			1 1 1 1 1 1 1 1 1		
	Radiological	<b>Support to Other Con</b>	tractors		724	01-Nov-17	16-Sep-20							<b></b>
	6.4	501008.6.4	06006400	Radiological Support to Other Contractors	724	01-Nov-17	16-Sep-20		1 1 1	1 1 1 1			1 1 1 1 1 1	
	6.4	501008.6.4	6007240	Radiological Awareness Briefings and Incoming and Outgoing Surveys	724	01-Nov-17	16-Sep-20		: : :					
	6.4	501008.6.4	6007270	Incomming and Outgoing Surveys	724	01-Nov-17	16-Sep-20							
	Radioactive	Check Sources			724	01-Nov-17	16-Sep-20		1 1 1	1 1 1 1				
	6.5	501008.6.5	06006500	Radioactive Check Sources	724	01-Nov-17	16-Sep-20							
	Personal Do	simetery			724	01-Nov-17	16-Sep-20		1 1 1	1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	6.6	501008.6.6	06006600	Personal Dosimetery	724	01-Nov-17	16-Sep-20							

Project Baseline Bar

Actual Work

Remaining Work

Critical Remaining Work

Milestone

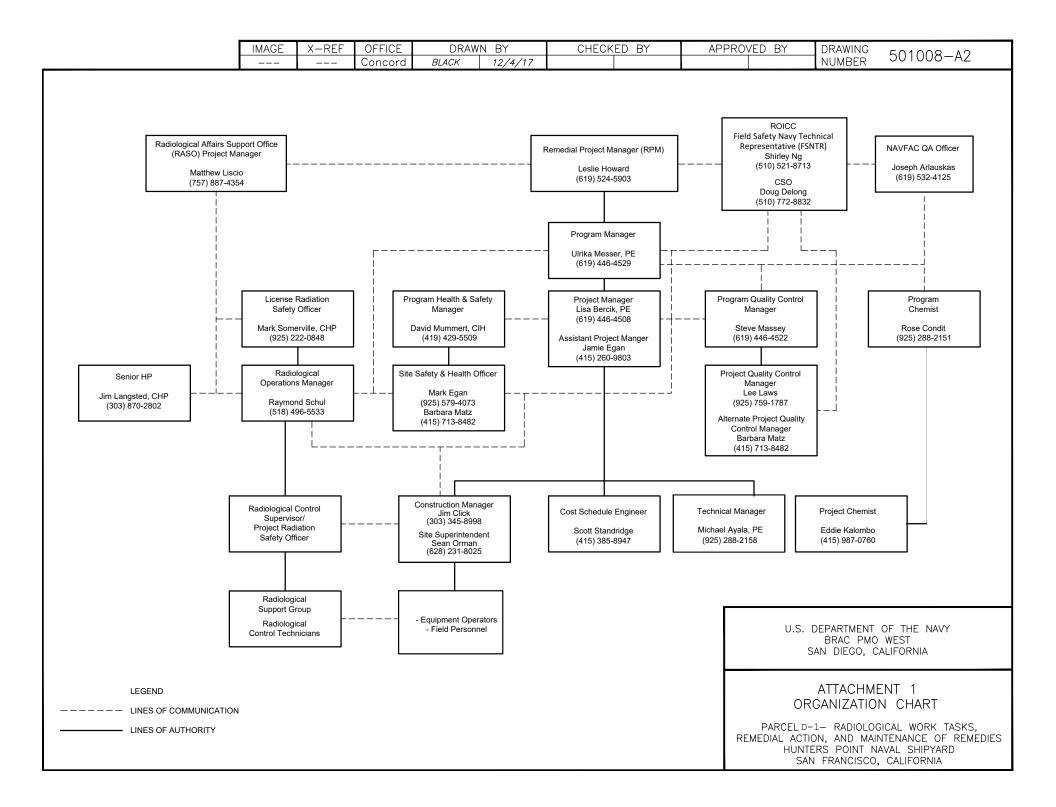
Summary

Project Schedule - Delivery Order: N6247317F4550
Parcel C, Parcel D-1, Parcel F, Hunters Point Naval Shipyard,
San Francisco, CA



Definable Features of Work Matrix Remedial Action in Parcel D-1 Hunters Point Naval Shipyard, San Francisco, California Contract No. N62473-12-D-2005 Contract Task Order 0003; Contract No. N62473-17-D-0006 Contract Task Order N62473-17-F-4550

Project Plan Section	Schedule Cross Reference	Feature of Work	Task Lead	Preparatory	Initial	Follow-Up	Completion
Work Plan 5.2.1	W.E. # 2.3.4.3	Utility Survey	Sean Orman	Sean Orman	<u>Lee Laws</u>	Lee Laws	Sean Orman
Work Plan 5.2.2	W.E. # 2.3.2.1	Clearing, Grubbing, and Subgrade Preparation	Sean Orman	<u>Sean Orman</u>	Lee Laws	Lee Laws	Sean Orman
Work Plan 5.2.5	W.E. # 2.3.6	Air Monitoring	Eddie Kalombo	Eddie Kalombo	<u>Lee Laws</u>	<u>Lee Laws</u>	Eddie Kalombo
Work Plan Addendum 6.1	W.E. # 2.4.2	Gamma Walkover Survey	Randall Killpack	Randall Killpack	<u>Lee Laws</u>	<u>Lee Laws</u>	Randall Killpack
Work Plan 5.2.7, Work Plan Addendum 6.2	W.E. # 2.3.8.1	Seawall Stability	Sean Orman	Sean Orman	Lee Laws	<u>Lee Laws</u>	Sean Orman
Work Plan 5.2.7	W.E. # 2.3.8.1	Swale Construction	Sean Orman	Sean Orman	<u>Lee Laws</u>	<u>Lee Laws</u>	Sean Orman
Work Plan 5.2.7	W.E. # 2.3.8.1	Asphalt Paving	Sean Orman	Sean Orman	<u>Lee Laws</u>	Lee Laws	Sean Orman
Work Plan 5.2.7	W.E. # 2.3.8.2	Building Foundation Repairing	Sean Orman	Sean Orman	<u>Lee Laws</u>	Lee Laws	Sean Orman
Work Plan 5.2.8	W.E. # 2.3.9	Monitoring Well Protection, Extension	Sean Orman	Sean Orman	<u>Lee Laws</u>	Lee Laws	Sean Orman
Work Plan 5.3.1	W.E. # 2.3.7	Land Survey	Sean Orman	Sean Orman	<u>Lee Laws</u>	Lee Laws	Sean Orman
Work Plan 5.3.3; Work Plan Addendum 6.3	W.E. # 2.5.1	O&M	Sean Orman	Sean Orman	<u>Lee Laws</u>	<u>Lee Laws</u>	Sean Orman



# **Appendix D** Stormwater Management Paperwork (provided on electronic copy only)

	GENER	AL INFORMATION	ON						
Project Name	Parcel D-1 Remedial Action, H	unters Point Shipya	ard, San	Francisco, Californ	ia				
Project No. Contract No. N62473-17-D-0006, CTO-N62473-17-F-4550									
Construction Stage	☐ Excavation and Earthmoving  ☑ Inactive Construction(♠♦♦ ₩€€ ₺)  Work Area		ea No.	ea No. 50100 8					
Inspector's Name	Renata Vidovic	Date		08-17-2018					
Signature	Pant Clark	Weathe	r	Sunny , 65°	F				
Inspection Type (Check Applicable)				☐ After a rain event ☐ Quarterly non-stormwater ☐ Other					
Season (Check Applicable)	☐ Rainy		Ø N	on-Rainy					
Storm Data	Storm Start Date & Time:	/	Storm	Duration (hrs):	/				
(www.wrh.noaa.gov)	Time elapsed since last storm (Circle Applicable Units)	Min. Hr. Days		eximate Rainfall ant (inches)	/				

7				
INSPECTION O	FB	/IPs		
ВМР	Yes	No	N/A	Corrective Action/Comments
Preservation of Existing Vegetation				
Is temporary fencing provided to preserve vegetation in areas where no construction activity is planned?	X			Fencing along perimeter of site. No protected areas within site boundaries.
Erosion Control				
Does the applied temporary erosion control provide 100% coverage for the affected areas?			x	site mab. no erosion control needed yet.
Are there any non-vegetated areas that may require temporary erosion control?		X		
Is the area where erosion controls are used required free from visible erosion?			X	
Temporary Linear Sediment Barriers (Silt Fence, Fiber Rolls,	Sand	lbag	Bar	riers, etc.)
Are temporary linear sediment barriers properly installed, functional and maintained?	X			waddles in place as required along smale lines; sandbays inplace around soil stockpile—to be inproved
Are temporary linear sediment barriers free of accumulated litter?	X			
Is the built-up sediment less than 1/3 the height of the barrier?	Х			
Stockpiles				
Are all locations of temporary stockpiles (include soil, haz waste, and construction materials) in approved areas?	Х			
Are stockpiles protected from run-on, run-off from adjacent areas and from winds?	x			
Are stockpiles located at least 15 m (50 ft) from concentrated flows, downstream drainage courses and storm drain inlets?	X			
Are required covers and/or perimeter controls in place?			X	

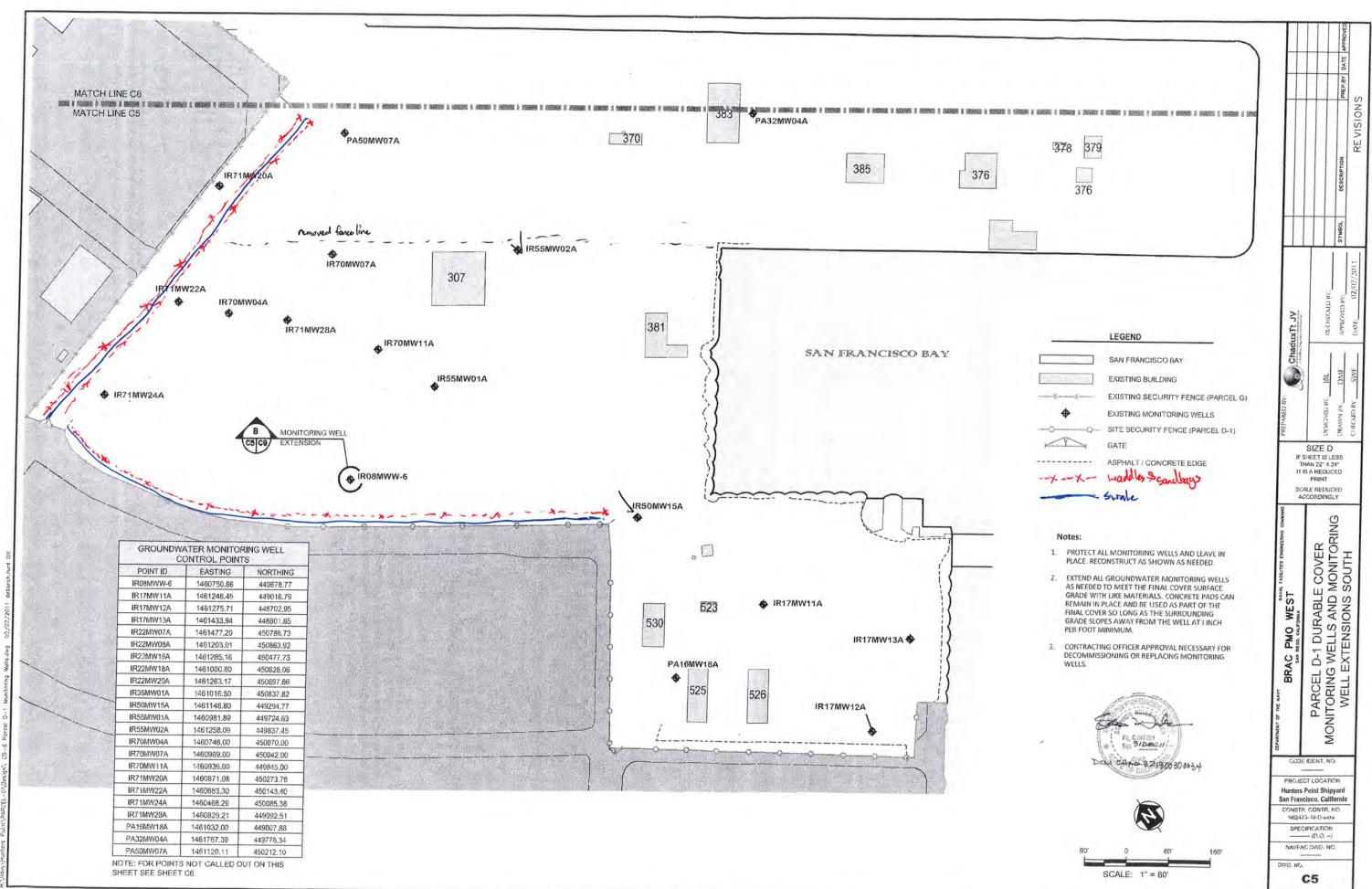
## Attachment 5

# Visual Inspection Checklist

INSPECTION OF BMPs										
ВМР	Yes	No	N/A	Corrective Action/Comments						
Concentrated Flows										
Are concentrated flow paths free of visible erosion?	X									
Tracking Control										
Is the entrance stabilized to prevent tracking	×			×						
Is the stabilized entrance inspected daily to ensure that it is working properly	Х	siv	100	RoadaV						
Are points of ingress/egress to public/private roads inspected and swept and vacuumed as heeded?	×	44		ment.						
Are all paved areas free of visible sediment tracking or other particulate matter?	X									
Wind Erosion Control										
ls dust control implemented?	×			1.						
Vehicle & Equipment Fueling, Cleaning, and Maintenance										
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious material?	X	7 7								
Are vehicle and equipment fueling, cleaning and maintenance activities performed on an impermeable surface in dedicated areas?	X									
If no, are drip pans used?	7.1		X							
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m (50 ft) away from downstream drainage facilities and watercourses and protected from run-on and runoff?	х									
s wash water contained for infiltration/ evaporation and disposed of appropriately?	х									
s'on-site cleaning limited to washing with water (no soap, soaps ubstitutes, solvents, or steam)?	×									
On each day of use, are vehicles and equipment inspected for eaks and if necessary, repaired?	X									
Vaste Management & Materials Pollution Control										
ure material storage areas and washout areas protected from un-on and runoff, and located at least 15 m from concentrated ows and downstream drainage facilities?	x									
re all material handling and storage areas clean; organized; free	×									
re liquid materials, hazardous materials, and hazardous wastes ored in temporary containment facilities?	4	7	(							
re bagged and boxed materials stored on pallets?		)								
re hazardous materials and wastes stored in appropriate, beled containers?		×								
re proper storage, clean-up, and spill-reporting procedures for azardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?		,								
re temporary containment facilities free of spills and rainwater?	<									
re temporary containment facilities and bagged/boxed materials overed?	1	>								

INSPECTION O	F BI	nPs		
BMP	Yes	No	N/A	Corrective Action/Comments
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?			*	
Is the site free of litter?	+			
Are trash receptacles provided in the yard, field trailer areas, and at locations where workers congregate for lunch and break periods?				
is litter from work areas collected and placed in watertight dumpsters?	x			
Are waste management receptacles free of leaks?	*			
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	*			
Are waste management receptacles filled at or beyond capacity?		+	0	
Illicit Connection/ Discharge	,			
Is there any evidence of illicit discharges or illegal dumping on the project site?		+		
If yes, has the Owner/Operator been notified?				
SWPPP Update				
and the deficient and contractor operations:	+			
Are all BMPs installed in the proper location(s) and according to he details in the SWPPP?	+			
General			T	
are there any other potential concerns at the site?		+		
storm Water Monitoring				
Does storm water discharge directly to a water body listed in the General Permit as impaired for sediment/sedimentation or urbidity?		+	- 1	No present stormwater
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan in the SWPPP?		$\lambda$	(	
id the sampling results indicate that the discharges are causing contributing to further impairment?		+		
If yes, were the erosion/sediment control BMPs improved or maintained to reduce the discharge of sediment to the water body?		1		
ere there any BMPs not properly implemented or breaches, alfunctions, leakages or spills observed which could result in e discharge of pollutants to surface waters that would not be sually detectable in storm water?		+		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?		+		
sampling indicated pollution of the storm water, were the leaks, eaches, spills, etc. cleaned up and the contaminated soil		+		

INSPECTION O	INSPECTION OF BMPs									
BMP	Yes	No	N/A	Corrective Action/Comments						
Were the BMPs maintained or replaced?	X									
Were soil amendments (e.g., gypsum, lime) used on the project?		X								
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?			X							
If sampling indicated pollution of the storm water by the use of the soil amendments, is there a contingency plan for retention posite of the polluted storm water?			X							
Did storm water contact stored materials or waste and run off the construction site? (Materials not in watertight containers, etc.)		X								
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?			Х							



	GEN	ERAL INFOR	MA	TION					
Project Name	Parcel D-1 Remedial Action	, Hunters Point	Sh	ipyard,	Sa	n Francisco, Californ	ia		
Project No.	Contract No. N62473-17-D-	0006, CTO-N62	N62473-17-F-4550						
Construction Stage	■ Excavation and Earthmo     □ Inactive Construction (	ving	Vorl	k Area	No.	501008			
Inspector's Name	Renata Vidovic	D	Date			08-24-18			
Signature	Runt Clint.	v	Vea	ther		08-24-18 Sunny, 66°12			
ine trousine alega N						After a rain event			
Inspection Type (Check Applicable)	✓ Weekly  ☐ 24-hr intervals during	extended rain				Quarterly non-stormy	vater		
Season (Check Applicable)	☐ Rainy			-	_	Non-Rainy			
Storm Data	Storm Start Date & Time:	/			Stor	rm Duration (hrs):	/		
(www.wrh.noaa.gov)	Time elapsed since last storm (Circle Applicable Units)	Min. Hr.	Da			roximate Rainfall ount (inches)	/		
	INSI	PECTION OF	BM	lPs					
	ВМР		Yes	No N	A	Corrective Action	on/Comments		
Preservation of Exis	ting Vegetation								
Is temporary fencing where no construction	provided to preserve vegetation activity is planned?	n in areas		)	4	fencing on perinater a	stoite		
Erosion Control						3			
coverage for the affect			χ			Le contraction			
erosion control?	getated areas that may require	200	X						
visible erosion?	sion controls are used required		X						
Temporary Linear Se	diment Barriers (Silt Fence,	Fiber Rolls, Sa	and	bag Ba	arri	ers, etc.)			
Are temporary linear s functional and maintai	ediment barriers properly insta ned?	alled,	Х		6	vaddles/savelbous in p along swales and soil;	olace as require stockpiles		
Are temporary linear s	ediment barriers free of accum	nulated litter?	γ	*					
s the built-up sedimer	nt less than 1/3 the height of th	e barrier?	X						
Stockpiles	A				-				
	nporary stockpiles (include soil rials) in approved areas?	, haz waste,	X						
	ed from run-on, run-off from ad								

X

X

waddles placed around soil stockpiles at northern edge to site

Are stockpiles located at least 15 m (50 ft) from concentrated

flows, downstream drainage courses and storm drain inlets?

Are required covers and/or perimeter controls in place?

INSPECTION OF BMPs										
ВМР	Yes	No	N/A	Corrective Action/Comments						
Concentrated Flows										
Are concentrated flow paths free of visible erosion?	X									
Tracking Control	1.1			Y.						
Is the entrance stabilized to prevent tracking	У									
Is the stabilized entrance inspected daily to ensure that it is working properly	×	živo	sil.	Seriata.						
Are points of ingress/egress to public/private roads inspected and swept and vacuumed as needed?	×	1	X.	A second						
Are all paved areas free of visible sediment tracking or other particulate matter?		X		noticed some minimal tracking along N. between phase 1 \$2. will discuss v/super						
Wind Erosion Control										
Is dust control implemented?	X									
Vehicle & Equipment Fueling, Cleaning, and Maintenance	1,4									
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious material?	×									
Are vehicle and equipment fueling, cleaning and maintenance activities performed on an impermeable surface in dedicated areas?	x									
If no, are drip pans used?			×							
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m (50 ft) away from downstream drainage facilities and watercourses and protected from run-on and runoff?	X									
s wash water contained for infiltration/ evaporation and disposed of appropriately?	X									
s on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	X									
On each day of use, are vehicles and equipment inspected for eaks and if necessary, repaired?	x									
Vaste Management & Materials Pollution Control										
Are material storage areas and washout areas protected from un-on and runoff, and located at least 15 m from concentrated lows and downstream drainage facilities?	x									
re all material handling and storage areas clean; organized; free f spills, leaks, or any other deleterious material; and stocked ith appropriate clean-up supplies?	x									
re liquid materials, hazardous materials, and hazardous wastes tored in temporary containment facilities?			×							
re bagged and boxed materials stored on pallets?			X							
re hazardous materials and wastes stored in appropriate, beled containers?			λ							
re proper storage, clean-up, and spill-reporting procedures for azardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?			x							
re temporary containment facilities free of spills and rainwater?	X									
re temporary containment facilities and bagged/boxed materials overed?		1	×							

von han selection as were

BMP				
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?	Yes	No	N/	
Is the site free of litter?	×	-	+	
Are trash receptacles provided in the yard, field trailer areas, and at locations where workers congregate for lunch and break periods?			- 4	
ls litter from work areas collected and placed in watertight dumpsters?	×			
Are waste management receptacles free of leaks?	×			U.
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	γ			
Are waste management receptacles filled at or beyond capacity?		x		
Illicit Connection/ Discharge				
s there any evidence of illicit discharges or illegal dumping on he project site?		*		
If yes, has the Owner/Operator been notified?				
SWPPP Update				
Oo the SWPPP and Project Schedule adequately reflect the current site conditions and contractor operations?	X			
are all BMPs installed in the proper location(s) and according to the details in the SWPPP?	y			
Seneral				
re there any other potential concerns at the site?		x	ij	
torm Water Monitoring				
oes storm water discharge directly to a water body listed in the eneral Permit as impaired for sediment/sedimentation or rbidity?			×	No present stormuster
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan in the SWPPP?			X	
d the sampling results indicate that the discharges are causing contributing to further impairment?			y	
If yes, were the erosion/sediment control BMPs improved or maintained to reduce the discharge of sediment to the water body?			k	
ere there any BMPs not properly implemented or breaches, alfunctions, leakages or spills observed which could result in a discharge of pollutants to surface waters that would not be ually detectable in storm water?		X		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?		×		
ampling indicated pollution of the storm water, were the leaks, aches, spills, etc. cleaned up and the contaminated soil perly disposed of?		x		

INSPECTION OF BMPs							
BMP	Yes	No	N/A	Corrective Action/Comments			
Were the BMPs maintained or replaced?	N .						
Were soil amendments (e.g., gypsum, lime) used on the project?		×					
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?			x				
If sampling indicated pollution of the storm water by the use of the soil amendments, is there a contingency plan for retention onsite of the polluted storm water?			*	3			
Did storm water contact stored materials or waste and run off the construction site? (Materials not in watertight containers, etc.)		x					
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?		b					

The fact was come that the group of the

X

X

	GENEI	RAL INFORMATIO	N						
Project Name	Parcel D-1 Remedial Action, Hunters Point Shipyard, San Francisco, California								
Project No.	Contract No. N62473-17-D-00	006, CTO-N62473-17	7-F-4550						
Construction Stage		ng Work Are	ea No.	501008					
Inspector's Name	Renata Vidovic	Date		08-31-18					
Signature	Rund Und.	Weather		Cloudelclear; 70°	955° WNW LONG				
Inspection Type (Check Applicable)	Prior to forecast rain  Weekly  24-hr intervals during ex	stended rain	☐ Qua	er a rain event arterly non-stormw	/ater				
Season (Check Applicable)	☐ Rainy		<b>⋈</b> No	n-Rainy					
Storm Data (www.wrh.noaa.gov)	Storm Start Date & Time:	/	Storm I	Duration (hrs):	1				
	Time elapsed since last storm (Circle Applicable Units)	Min. Hr. Days		imate Rainfall t (inches)	1				

INSPECTION OF BMPs								
ВМР	Yes	No	N/A	Corrective Action/Comments				
Preservation of Existing Vegetation								
Is temporary fencing provided to preserve vegetation in areas where no construction activity is planned?			X	toning on parineter of site				
Erosion Control								
Does the applied temporary erosion control provide 100% coverage for the affected areas?			X					
Are there any non-vegetated areas that may require temporary erosion control?	χ			we may at som point but not presently				
Is the area where erosion controls are used required free from visible erosion?			x	9				
Temporary Linear Sediment Barriers (Silt Fence, Fiber Rolls,	Sand	bag	Bar	riers, etc.)				
Are temporary linear sediment barriers properly installed, functional and maintained?	X			waddles I send bugs in place as needed along swales and soil stockyills				
Are temporary linear sediment barriers free of accumulated litter?	χ							
s the built-up sediment less than 1/3 the height of the barrier?	х	H						
Stockpiles								
Are all locations of temporary stockpiles (include soil, haz waste, and construction materials) in approved areas?	X	10		This weeks shadepine masty involve metal, commented or disposed.				
Are stockpiles protected from run-on, run-off from adjacent areas and from winds?	×			-1 Class to Seed of Selfoldi				
Are stockpiles located at least 15 m (50 ft) from concentrated lows, downstream drainage courses and storm drain inlets?	Y							
Are required covers and/or perimeter controls in place?			X					

# **Visual Inspection Checklist**

INSPECTION OF	FBN	1Ps		
ВМР	Yes	No	N/A	Corrective Action/Comments
Concentrated Flows				
Are concentrated flow paths free of visible erosion?	*			
Tracking Control				-
Is the entrance stabilized to prevent tracking	Х	1		
Is the stabilized entrance inspected daily to ensure that it is working properly	Х			
Are points of ingress/egress to public/private roads inspected and swept and vacuumed as needed?	X			a Mark and the hand
Are all paved areas free of visible sediment tracking or other particulate matter?		X		Spoke without experiment, and boundary between phase 92 will be cleared after the in
Wind Erosion Control				
Is dust control implemented?	X			
Vehicle & Equipment Fueling, Cleaning, and Maintenance				
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious material?	X			
Are vehicle and equipment fueling, cleaning and maintenance activities performed on an impermeable surface in dedicated areas?	X			
If no, are drip pans used?				
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m (50 ft) away from downstream drainage facilities and watercourses and protected from run-on and runoff?	X			
Is wash water contained for infiltration/ evaporation and disposed of appropriately?	X		X	
ls on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	X			
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?	X			
Waste Management & Materials Pollution Control				
Are material storage areas and washout areas protected from run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	χ			construction materials should on foundation of LI day 530
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	Х			
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?			×	
Are bagged and boxed materials stored on pallets?			X	
Are hazardous materials and wastes stored in appropriate, abeled containers?			X	
Are proper storage, clean-up, and spill-reporting procedures for nazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?	х			In trader-office
Are temporary containment facilities free of spills and rainwater?	X			
Are temporary containment facilities and bagged/boxed materials covered?	×			

INSPECTION OF BMPs								
ВМР	Yes	No	N/A	Corrective Action/Comments				
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?			×					
Is the site free of litter?	×							
Are trash receptacles provided in the yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	x							
ls litter from work areas collected and placed in watertight dumpsters?	X							
Are waste management receptacles free of leaks?	X							
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	X							
Are waste management receptacles filled at or beyond capacity?		X						
Illicit Connection/ Discharge								
Is there any evidence of illicit discharges or illegal dumping on the project site?  If yes, has the Owner/Operator been notified?		×						
SWPPP Update								
Do the SWPPP and Project Schedule adequately reflect the	X			Crading/search fill/volity fill on schedule				
current site conditions and contractor operations?  Are all BMPs installed in the proper location(s) and according to the details in the SWPPP?	X							
General								
are there any other potential concerns at the site?		K						
itorm Water Monitoring			_					
Ooes storm water discharge directly to a water body listed in the General Permit as impaired for sediment/sedimentation or urbidity?			X	No storm water				
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan in the SWPPP?								
id the sampling results indicate that the discharges are causing contributing to further impairment?		,	Y					
If yes, were the erosion/sediment control BMPs improved or maintained to reduce the discharge of sediment to the water body?								
ere there any BMPs not properly implemented or breaches, alfunctions, leakages or spills observed which could result in e discharge of pollutants to surface waters that would not be ually detectable in storm water?		X						
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?								
campling indicated pollution of the storm water, were the leaks, eaches, spills, etc. cleaned up and the contaminated soil operly disposed of?		x						

INSPECTION OF BMPs							
BMP	Yes	No	N/A	Corrective Action/Comments			
Were the BMPs maintained or replaced?	X			wouldes inspected daily los-needed			
Were soil amendments (e.g., gypsum, lime) used on the project?		χ					
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?							
If sampling indicated pollution of the storm water by the use of the soil amendments, is there a contingency plan for retention consite of the polluted storm water?			Х				
Did storm water contact stored materials or waste and run off the construction site? (Materials not in watertight containers, etc.)		1	X				
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?							

	GENER	RAL INFOR	RMA	TION	ı			
Project Name	Parcel D-1 Remedial Action, Hunters Point Shipyard, San Francisco, California							
Project No.	Contract No. N62473-17-D-00	06, CTO-N6	5247	'3-17-F	-45	550		
Construction Stage	☐ Excavation and Earthmovin☐ Inactive Construction	☐ Excavation and Earthmoving ☐ Inactive Construction			No	501008		
Inspector's Name	Renata Victoria		Date			09-07-14		
Signature	famtlenis.		Weather			cloudy Ichear , NW 12 mph; 472° F & SYOF		
Inspection Type (Check Applicable)	☐ Prior to forecast rain ☐ Weekly ☐ 24-hr intervals during ex	tended rain	☐ After a rain event ☐ Quarterly non-stormwater ☐ Other					
Season (Check Applicable)	Rainy				Ø	Non-Rainy		
Storm Data	Storm Start Date & Time:	/	/ 8		Sto	orm Duration (hrs):	1	
(www.wrh.noaa.gov)	Time elapsed since last storm (Circle Applicable Units)					pproximate Rainfall mount (inches)		
	INSPE	CTION OF	BN	/IPs			1	
	ВМР		Yes	No I	N/A	Corrective Acti	on/Comments	
Preservation of Exis	sting Vegetation							
ls temporary fencing where no construction	provided to preserve vegetation in activity is planned?	n areas			X	fencing on perimete	-disite where applicable	
Erosion Control						0 1		
Does the applied tem coverage for the affect	porary erosion control provide 10 cted areas?	00%			X		= = = = = = = = = = = = = = = = = = = =	
erosion control?	getated areas that may require to		X		ijſ	we may atsompoint h	d not precently	
Is the area where ero visible erosion?	sion controls are used required for	ree from			x			
Temporary Linear S	ediment Barriers (Silt Fence, Fi	ber Rolls, S	Sano	lbag E	Barr	iers, etc.)		
Are temporary linear sediment barriers properly installed, functional and maintained?			X			waddles   syndbas in p	lace as needed along	
Are temporary linear	sediment barriers free of accumu	lated litter?	χ					
s the built-up sedime	ent less than 1/3 the height of the	barrier?	x					
Stockpiles								
and construction mate	Are all locations of temporary stockpiles (include soil, haz waste, and construction materials) in approved areas?		χ			Stockpiles remaining incometal, Dayreandebris	hade evensuterood,	
Are stockpiles protect and from winds?	ed from run-on, run-off from adja	cent areas	χ					
	d at least 15 m (50 ft) from concer		X					

Are required covers and/or perimeter controls in place?

χ

#### Attachment 5

#### Visual Inspection Checklist

INSPECTION O	L BI	/IPS		
ВМР	Yes	No	N/A	Corrective Action/Comments
Concentrated Flows				
Are concentrated flow paths free of visible erosion?	X			
Tracking Control				
Is the entrance stabilized to prevent tracking	X			
Is the stabilized entrance inspected daily to ensure that it is working properly	×			
Are points of ingress/egress to public/private roads inspected and swept and vacuumed as needed?	X b			CONTRACTOR OF THE SECOND
Are all paved areas free of visible sediment tracking or other particulate matter?		X		Edge between phase ( ) 2 vill be mountaned! cheand after asphalt tier in
Wind Erosion Control				The state of the s
Is dust control implemented?	X			
Vehicle & Equipment Fueling, Cleaning, and Maintenance	1,			
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious material?	X			recioned fuel tank this reck. Stagged on concrete paid near entrance to site. Set up on plantages
Are vehicle and equipment fueling, cleaning and maintenance activities performed on an impermeable surface in dedicated areas?	X			will be done arranante pad laspirall
If no, are drip pans used?				
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m (50 ft) away from downstream drainage facilities and watercourses and protected from run-on and runoff?	X			
s wash water contained for infiltration/ evaporation and disposed of appropriately?	х			
s on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	χ			
On each day of use, are vehicles and equipment inspected for eaks and if necessary, repaired?	λ			
Naste Management & Materials Pollution Control				
Are material storage areas and washout areas protected from un-on and runoff, and located at least 15 m from concentrated lows and downstream drainage facilities?	X			Construction materials stored in 1812 536
are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	Х			
are liquid materials, hazardous materials, and hazardous wastes tored in temporary containment facilities?			χ	
re bagged and boxed materials stored on pallets?			χ	
are hazardous materials and wastes stored in appropriate, abeled containers?			У	
are proper storage, clean-up, and spill-reporting procedures for azardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?	X			In trader-office
	y			
re temporary containment facilities and bagged/boxed materials overed?	χ			

INSPECTION O	F BN	IPs		
ВМР	Yes	No	N/A	Corrective Action/Comments
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?			Х	
Is the site free of litter?	y			
Are trash receptacles provided in the yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	λ			
ls litter from work areas collected and placed in watertight dumpsters?	X			
Are waste management receptacles free of leaks?	X			
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	x			
Are waste management receptacles filled at or beyond capacity?		X		
Illicit Connection/ Discharge				
Is there any evidence of illicit discharges or illegal dumping on the project site?		x		
If yes, has the Owner/Operator been notified?				
SWPPP Update				
Do the SWPPP and Project Schedule adequately reflect the current site conditions and contractor operations?	Х			grading Iseawall sortility fill on schedule
Are all BMPs installed in the proper location(s) and according to the details in the SWPPP?	χ			
General				
Are there any other potential concerns at the site?		χ		
Storm Water Monitoring				
Does storm water discharge directly to a water body listed in the General Permit as impaired for sediment/sedimentation or turbidity?			x	no storm water
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan in the SWPPP?				
Did the sampling results indicate that the discharges are causing or contributing to further impairment?			λ	
If yes, were the erosion/sediment control BMPs improved or maintained to reduce the discharge of sediment to the water body?				
Were there any BMPs not properly implemented or breaches, malfunctions, leakages or spills observed which could result in he discharge of pollutants to surface waters that would not be visually detectable in storm water?			λ	
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				
f sampling indicated pollution of the storm water, were the leaks, preaches, spills, etc. cleaned up and the contaminated soil properly disposed of?		1	r	

INSPECTION OF BMPs							
ВМР	Yes	No	N/A	Corrective Action/Comments			
Were the BMPs maintained or replaced?	X						
Were soil amendments (e.g., gypsum, lime) used on the project?		x					
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?							
If sampling indicated pollution of the storm water by the use of the soil amendments, is there a contingency plan for retention consite of the polluted storm water?			Х				
Did storm water contact stored materials or waste and run off the construction site? (Materials not in watertight containers, etc.)		-	X				
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?							

	GENER	RAL INFOR	RMA	TION	1			
Project Name	Parcel D-1 Remedial Action, F	lunters Poin	t Shi	pyard	d, Sar	n Francisco, Californ	ia	
Project No.	Contract No. N62473-17-D-00	06, CTO-N6	32473	3-17-1	F-455	50		
Construction Stage	Excavation and Earthmovin	ng ,	Work	Area	a No.	501008		
Inspector's Name	Renata Vidoric		Date			09-14-18		
Signature	But Ulmis	P	Weather			09-14-18 Clear; Wilmph; \$680 FV 550F		
Inspection Type (Check Applicable)	☐ Prior to forecast rain ☐ Weekly ☐ 24-hr intervals during ex	dended rain				After a rain event Quarterly non-stormy Other	vater	
Season (Check Applicable)	Rainy				Ø	Non-Rainy		
Storm Data	Storm Start Date & Time:	1			Stor	m Duration (hrs):	/	
(www.wrh.noaa.gov)	Time elapsed since last storm (Circle Applicable Units)	Min. Hr.	Day	ys		roximate Rainfall ount (inches)	1	
	INSPE	CTION OF	ВМ	Ps			ar.	
, ,	ВМР		Yes	No	N/A	Corrective Action	on/Comments	

INSPECTION OF	F BN	IPs		
ВМР	Yes	No	N/A	Corrective Action/Comments
Preservation of Existing Vegetation				
Is temporary fencing provided to preserve vegetation in areas where no construction activity is planned?			X	Fencing on perimeter of site hereapplicable
Erosion Control				0
Does the applied temporary erosion control provide 100% coverage for the affected areas?			×	
Are there any non-vegetated areas that may require temporary erosion control?	χ			we may at some point but not presently
Is the area where erosion controls are used required free from visible erosion?			χ	
Temporary Linear Sediment Barriers (Silt Fence, Fiber Rolls,	Sand	bag	Bar	riers, etc.)
Are temporary linear sediment barriers properly installed, functional and maintained?	X			unddles /sunbays in place as needed a long
Are temporary linear sediment barriers free of accumulated litter?	X			
Is the built-up sediment less than 1/3 the height of the barrier?	X			
Stockpiles				
Are all locations of temporary stockpiles (include soil, haz waste, and construction materials) in approved areas?	χ			All stockpiles loaded but this morning except crept crept by a concrete
Are stockpiles protected from run-on, run-off from adjacent areas and from winds?		Х	Ü	pad in Bloby 500 area. Expected load-out
Are stockpiles located at least 15 m (50 ft) from concentrated flows, downstream drainage courses and storm drain inlets?	М		(1)	77
Are required covers and/or perimeter controls in place?			X	

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# Attachment 5

# Visual Inspection Checklist

INSPECTION OF BMPs							
ВМР	Yes	No	N/A	Corrective Action/Comments			
Concentrated Flows							
Are concentrated flow paths free of visible erosion?	×						
Tracking Control							
Is the entrance stabilized to prevent tracking	X			4			
Is the stabilized entrance inspected daily to ensure that it is working properly	Х						
Are points of ingress/egress to public/private roads inspected and swept and vacuumed as needed?	X			LY			
Are all paved areas free of visible sediment tracking or other particulate matter?		X		Edge between phase 1 &2 will be monitore and cloud after applial the in			
Wind Erosion Control							
s dust control implemented?	X						
Vehicle & Equipment Fueling, Cleaning, and Maintenance		ī					
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious material?	χ						
Are vehicle and equipment fueling, cleaning and maintenance activities performed on an impermeable surface in dedicated areas?	X						
If no, are drip pans used?	١						
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m (50 ft) away from downstream drainage facilities and watercourses and protected from run-on and runoff?	X	1					
s wash water contained for infiltration/ evaporation and disposed of appropriately?	×						
s on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	Х						
On each day of use, are vehicles and equipment inspected for eaks and if necessary, repaired?	X		1				
Vaste Management & Materials Pollution Control							
Are material storage areas and washout areas protected from un-on and runoff, and located at least 15 m from concentrated lows and downstream drainage facilities?	X			Construction materials stored in Bloby 550 & 381			
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	X						
are liquid materials, hazardous materials, and hazardous wastes tored in temporary containment facilities?			χ				
re bagged and boxed materials stored on pallets?			X				
re hazardous materials and wastes stored in appropriate, abeled containers?	X			1-			
re proper storage, clean-up, and spill-reporting procedures for azardous materials and wastes posted in open, conspicuous nd accessible locations adjacent to storage areas?	х		6-1				
re temporary containment facilities free of spills and rainwater?	X						
re temporary containment facilities and bagged/boxed materials overed?	χ						

INSPECTION OF	BIV	IPS	_	
. BMP	Yes	No	N/A	Corrective Action/Comments
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?			Х	
Is the site free of litter?	X			
Are trash receptacles provided in the yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	Х			
s litter from work areas collected and placed in watertight dumpsters?	X			
Are waste management receptacles free of leaks?	X			
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	X			1
Are waste management receptacles filled at or beyond capacity?		X		
Illicit Connection/ Discharge				
s there any evidence of illicit discharges or illegal dumping on the project site?		X		
If yes, has the Owner/Operator been notified?				
SWPPP Update				
Do the SWPPP and Project Schedule adequately reflect the current site conditions and contractor operations?	X			grading 1. seconal fill offility fill on schools
Are all BMPs installed in the proper location(s) and according to the details in the SWPPP?	λ			
General ,				
Are there any other potential concerns at the site?		*		
Storm Water Monitoring				
Does storm water discharge directly to a water body listed in the General Permit as impaired for sediment/sedimentation or urbidity?			X	No starm water
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan in the SWPPP?			ij	-
old the sampling results indicate that the discharges are causing recontributing to further impairment?			У	
If yes, were the erosion/sediment control BMPs improved or maintained to reduce the discharge of sediment to the water body?				
Vere there any BMPs not properly implemented or breaches, nalfunctions, leakages or spills observed which could result in the discharge of pollutants to surface waters that would not be isually detectable in storm water?			X	
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?			-	
sampling indicated pollution of the storm water, were the leaks, reaches, spills, etc. cleaned up and the contaminated soil			χ	

INSPECTION OF BMPs							
ВМР	Yes	No	N/A	Corrective Action/Comments			
Were the BMPs maintained or replaced?	×						
Were soil amendments (e.g., gypsum, lime) used on the project?		У					
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?				4.			
If sampling indicated pollution of the storm water by the use of the soil amendments, is there a contingency plan for retention posite of the polluted storm water?			X				
Did storm water contact stored materials or waste and run off the construction site? (Materials not in watertight containers, etc.)			χ				
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?		41.					

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	GENE	RAL INFORMATIO	N					
Project Name	Parcel D-1 Remedial Action, Hunters Point Shipyard, San Francisco, California							
Project No.	Contract No. N62473-17-D-00	006, CTO-N62473-17	-F-4550	of T				
Construction Stage	☼ Excavation and Earthmovi ☐ Inactive Construction	moving Work Area N		501008				
Inspector's Name	Renata Vidaric	Date		09/21/18				
Signature	Com & Wind.	Weather		SUMMY: 72452 Wind Compless				
Inspection Type (Check Applicable)	Prior to forecast rain  Weekly  24-hr intervals during ex	ktended rain	□ Qı	ter a rain event uarterly non-stormy	vater			
Season (Check Applicable)	Rainy		D N	on-Rainy				
Storm Data	Storm Start Date & Time:	/	Storm	Duration (hrs):	1			
(www.wrh.noaa.gov)	www.wrh.noaa.gov) Time elapsed since last storm (Circle Applicable Units) Min. Hr. Days		Approximate Rainfall Amount (inches)					

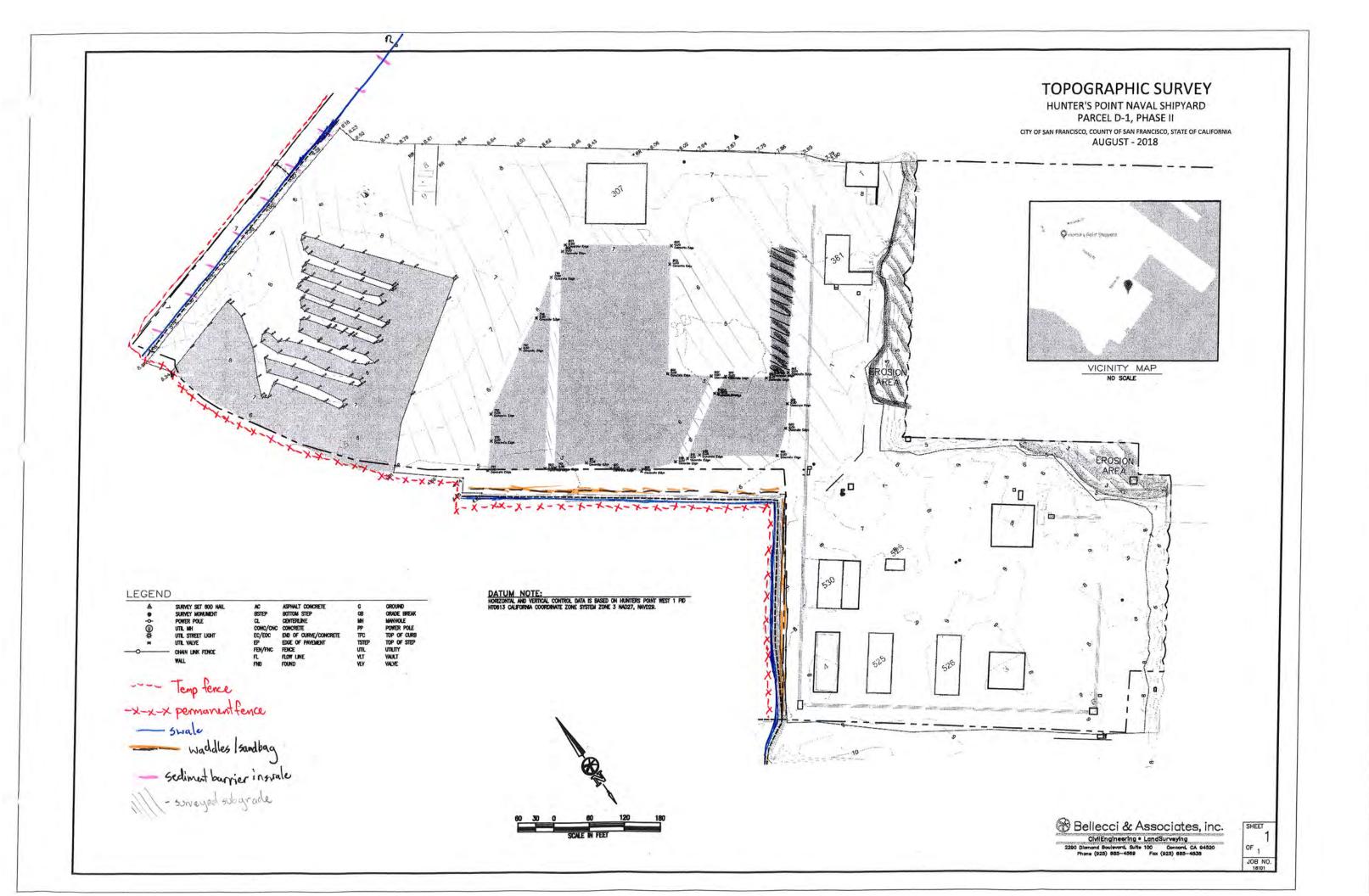
INSPECTION OF	FBN	1Ps	0	
ВМР	Yes	No	N/A	Corrective Action/Comments
Preservation of Existing Vegetation				
Is temporary fencing provided to preserve vegetation in areas where no construction activity is planned?	X			Temp fencing on perimeter of parcel
Erosion Control				
Does the applied temporary erosion control provide 100% coverage for the affected areas?				
Are there any non-vegetated areas that may require temporary erosion control?				
Is the area where erosion controls are used required free from visible erosion?				
Temporary Linear Sediment Barriers (Silt Fence, Fiber Rolls,	Sand	bag	Ва	rriers, etc.)
Are temporary linear sediment barriers properly installed, functional and maintained?	X		F	*note1*
Are temporary linear sediment barriers free of accumulated litter?	X			
Is the built-up sediment less than 1/3 the height of the barrier?	X			
Stockpiles				
Are all locations of temporary stockpiles (include soil, haz waste, and construction materials) in approved areas?	X			any crossole wood studepile left on concrete foundation in Bldy 500 area
Are stockpiles protected from run-on, run-off from adjacent areas and from winds?		X		expected load-out soon?
Are stockpiles located at least 15 m (50 ft) from concentrated flows, downstream drainage courses and storm drain inlets?	X			
Are required covers and/or perimeter controls in place?			X	

INSPECTION O	FBN	IPs		
ВМР	Yes	No	N/A	Corrective Action/Comments
Concentrated Flows				
Are concentrated flow paths free of visible erosion?	X			
Tracking Control				-
Is the entrance stabilized to prevent tracking	X			
Is the stabilized entrance inspected daily to ensure that it is working properly  Are points of ingress/egress to public/private roads inspected and	x	Ι		
swept and vacuumed as needed?	X			
Are all paved areas free of visible sediment tracking or other particulate matter?		X		Bounding bothern phase 1 &2 open. Will be cleaned during latter exphalt fierin
Wind Erosion Control				0
Is dust control implemented?	X			
Vehicle & Equipment Fueling, Cleaning, and Maintenance				
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious material?	X			
Are vehicle and equipment fueling, cleaning and maintenance activities performed on an impermeable surface in dedicated areas?	X			
If no, are drip pans used?				
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m (50 ft) away from downstream drainage facilities and watercourses and protected from run-on and runoff?	X			
s wash water contained for infiltration/ evaporation and disposed of appropriately?	X		r	
s on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	X			
On each day of use, are vehicles and equipment inspected for eaks and if necessary, repaired?	X			
Naste Management & Materials Pollution Control				
Are material storage areas and washout areas protected from un-on and runoff, and located at least 15 m from concentrated lows and downstream drainage facilities?	X			construction materials stored only Bldg's 381-2530
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	X			
re liquid materials, hazardous materials, and hazardous wastes tored in temporary containment facilities?			λ	
re bagged and boxed materials stored on pallets?			X	
are hazardous materials and wastes stored in appropriate, abeled containers?			X	
re proper storage, clean-up, and spill-reporting procedures for azardous materials and wastes posted in open, conspicuous nd accessible locations adjacent to storage areas?	7			In trailer-office
re temporary containment facilities free of spills and rainwater?	χ			
re temporary containment facilities and bagged/boxed materials overed?	X			
			_	

INSPECTION O	F BN	/IPs			
ВМР	Yes	No	N/A	A Corrective Action/Comments	
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?		1000	X		
Is the site free of litter?	×				
Are trash receptacles provided in the yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	χ				
Is litter from work areas collected and placed in watertight dumpsters?	X				
Are waste management receptacles free of leaks?	X				
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	X				
Are waste management receptacles filled at or beyond capacity?		χ			
Illicit Connection/ Discharge					
Is there any evidence of illicit discharges or illegal dumping on the project site?		x		Grading Iseawall fill on schedule R	
If yes, has the Owner/Operator been notified?			Ш		
SWPPP Update					
On the SWPPP and Project Schedule adequately reflect the	X			Grading/second fill on schedule	
Are all BMPs installed in the proper location(s) and according to the details in the SWPPP?	Х			0	
General					
Are there any other potential concerns at the site?		X			
Storm Water Monitoring					
Does storm water discharge directly to a water body listed in the General Permit as impaired for sediment/sedimentation or urbidity?			x	no stormuater	
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan in the SWPPP?					
bid the sampling results indicate that the discharges are causing r contributing to further impairment?		>	X		
If yes, were the erosion/sediment control BMPs improved or maintained to reduce the discharge of sediment to the water body?					
fere there any BMPs not properly implemented or breaches, alfunctions, leakages or spills observed which could result in e discharge of pollutants to surface waters that would not be sually detectable in storm water?		>	(		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?					
sampling indicated pollution of the storm water, were the leaks, eaches, spills, etc. cleaned up and the contaminated soil operly disposed of?		X			

INSPECTION OF BMPs					
BMP	Yes	No	N/A	Corrective Action/Comments	
Were the BMPs maintained or replaced?	x				
Were soil amendments (e.g., gypsum, lime) used on the project?		х			
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?					
If sampling indicated pollution of the storm water by the use of the soil amendments, is there a contingency plan for retention posite of the polluted storm water?			У		
Did storm water contact stored materials or waste and run off the construction site? (Materials not in watertight containers, etc.)			x		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?					

\*\*Note 1 \* sow would less along Manseau St. scale removed for work. They were deemed too used to put back. Filter tabric was therefore placed over the outlet cover and sediment barries were constructed at regular intervals along swale w/s and bags to prevent run-off.



	GENERAL INFO	ORMAT	ION		
Project Name Parcel D-1 Remedial Action, Hunters Point Shipyard, San Francisco, California					
Project No.	Contract No. N62473-17	-D-0	006,	CTO-N6247	3-17-F-4550
Construction Stage	Excavation and Earthmoving Inactive Construction	Work	Area No		
Inspector's Name	Eddie K. Kalombo	Date		Sep/28/20	)18
Signature	All hale	Weath	ner	Sunny	
	Prior to forecast rain			After a rain event	
Inspection Type (Check Applicable)	✓ Weekly			Quarterly non-storm	nwater
	24-hr intervals during extended ra	ain		Other	
Season (Check Applicable)	Rainy		✓	Non-Rainy	
Storm Data	Storm Start Date & Time:		Sto	orm Duration (hrs):	
(www.wrh.noaa.gov)	Time elapsed since last storm (Circle Applicable Units)  Min. H	⊣r. Day	Λ	proximate Rainfall nount (inches)	
			_		
	INSPECTION	OF BM			
	ВМР	Yes	No N/A	Corrective Ac	tion/Comments
Preservation of Exi				1	
	provided to preserve vegetation in areas n activity is planned?	$\checkmark$			
Erosion Control					
Does the applied ten coverage for the affe	nporary erosion control provide 100% cted areas?	<b>√</b>		100% coverage	e around swales
Are there any non-vee erosion control?	egetated areas that may require temporary		<b>√</b>		
Is the area where erd visible erosion?	osion controls are used required free from	<b>√</b>			
Temporary Linear S	ediment Barriers (Silt Fence, Fiber Roll	s, Sand	bag Bar	riers, etc.)	
Are temporary linear functional and mainta	sediment barriers properly installed, ained?	$\checkmark$		waddles alon	g swale lines
Are temporary linear	sediment barriers free of accumulated litte	er? 🗸			
Is the built-up sedime	ent less than 1/3 the height of the barrier?	<b>√</b>			
Stockpiles		•	'		
	emporary stockpiles (include soil, haz waste terials) in approved areas?	e, 🖊			
Are stockpiles protect	cted from run-on, run-off from adjacent area	as /		<u>.</u>	
and from winds? Are stockpiles locate	d at least 15 m (50 ft) from concentrated	<b>V</b>		-	
flows, downstream d	rainage courses and storm drain inlets?	<b>√</b>	<u> </u>		
Are required covers	and/or perimeter controls in place?				

INSPECTION OF	ВМ	Ps		
ВМР	Yes	No	N/A	Corrective Action/Comments
Concentrated Flows				
Are concentrated flow paths free of visible erosion?	<b>/</b>			
Tracking Control				
Is the entrance stabilized to prevent tracking	1			
Is the stabilized entrance inspected daily to ensure that it is working properly	<b>√</b>			
Are points of ingress/egress to public/private roads inspected and swept and vacuumed as needed?	<b>√</b>			
Are all paved areas free of visible sediment tracking or other particulate matter?	<b>√</b>			
Wind Erosion Control				
Is dust control implemented?	<b>√</b>			water truck and dust monitoring both in place
Vehicle & Equipment Fueling, Cleaning, and Maintenance				
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other	<b>/</b>			
deleterious material?  Are vehicle and equipment fueling, cleaning and maintenance				
activities performed on an impermeable surface in dedicated areas?	<b>√</b>			
If no, are drip pans used?				
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m (50 ft) away from downstream drainage facilities and watercourses and protected from run-on and runoff?	<b>√</b>			
Is wash water contained for infiltration/ evaporation and disposed of appropriately?	<b>√</b>			
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	<b>√</b>			
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?	<b>√</b>			yes, per daily inspection sheets
Waste Management & Materials Pollution Control				
Are material storage areas and washout areas protected from				
run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	✓			
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	<b>√</b>			
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?	<b>√</b>			gas cans and motor oil
Are bagged and boxed materials stored on pallets?	<b>/</b>			
Are hazardous materials and wastes stored in appropriate, labeled containers?	<u>√</u>			
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?	<b>√</b>			
Are temporary containment facilities free of spills and rainwater?	1			
Are temporary containment facilities and bagged/boxed materials covered?	<b>√</b>			
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?	<b>√</b>			

INSPECTION OF BMPs						
ВМР	Yes	No	N/A	Corrective Action/Comments		
Is the site free of litter?	<b>✓</b>					
Are trash receptacles provided in the yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	<b>√</b>					
Is litter from work areas collected and placed in watertight dumpsters?	<b>√</b>					
Are waste management receptacles free of leaks?	$\checkmark$					
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	<b>√</b>					
Are waste management receptacles filled at or beyond capacity?		<b>✓</b>				
Illicit Connection/ Discharge						
Is there any evidence of illicit discharges or illegal dumping on the project site?		<b>√</b>				
If yes, has the Owner/Operator been notified?						
SWPPP Update						
Do the SWPPP and Project Schedule adequately reflect the current site conditions and contractor operations?	<b>√</b>					
Are all BMPs installed in the proper location(s) and according to the details in the SWPPP?	<b>√</b>					
General						
Are there any other potential concerns at the site?		<b>√</b>				
Storm Water Monitoring						
Does storm water discharge directly to a water body listed in the General Permit as impaired for sediment/sedimentation or turbidity?			<b>√</b>	No storms were observed		
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan in the SWPPP?						
Did the sampling results indicate that the discharges are causing or contributing to further impairment?			<b>√</b>			
If yes, were the erosion/sediment control BMPs improved or maintained to reduce the discharge of sediment to the water body?						
Were there any BMPs not properly implemented or breaches, malfunctions, leakages or spills observed which could result in the discharge of pollutants to surface waters that would not be visually detectable in storm water?			<b>√</b>			
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?						
If sampling indicated pollution of the storm water, were the leaks, breaches, spills, etc. cleaned up and the contaminated soil properly disposed of?			<b>√</b>			
Were the BMPs maintained or replaced?	<b>√</b>					

INSPECTION OF BMPs						
ВМР	Yes	No	N/A	Corrective Action/Comments		
Were soil amendments (e.g., gypsum, lime) used on the project?		<b>√</b>				
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?						
If sampling indicated pollution of the storm water by the use of the soil amendments, is there a contingency plan for retention onsite of the polluted storm water?			<b>√</b>			
Did storm water contact stored materials or waste and run off the construction site? (Materials not in watertight containers, etc.)			<b>√</b>			
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?						



Figure 1: Manseau St. Swale



Figure 2: Mahan St. Swale BMPs



Figure 3: Hussey St. Swale BMPs



Figure 4: Hussey St. Fence Line BMPs

	GENERAL INFO	ORMAT	ION		
Project Name Parcel D-1 Remedial Action, Hunters Point Shipyard, San Francisco, California					ncisco, California
Project No.	Contract No. N62473-17	'-D-0	006,	CTO-N6247	3-17-F-4550
Construction Stage	Excavation and Earthmoving Inactive Construction	Work	Area No	).	
Inspector's Name	Eddie K. Kalombo	Date		Oct/01/20	18
Signature	All hack	Weath	ner	Sunny	
	✓ Prior to forecast rain			After a rain event	
Inspection Type (Check Applicable)	Weekly			Quarterly non-storm	ıwater
	24-hr intervals during extended ra	ain		Other	
Season (Check Applicable)	✓ Rainy			Non-Rainy	
Storm Data	Storm Start Date & Time:		Sto	orm Duration (hrs):	
(www.wrh.noaa.gov)	Time elapsed since last storm (Circle Applicable Units)  Min. 1	Hr. Day	۸.	proximate Rainfall nount (inches)	
	INSPECTION	OF BM			
	ВМР	Yes	No N/A	Corrective Ac	tion/Comments
Preservation of Exi					
	provided to preserve vegetation in areas in activity is planned?	$\checkmark$		]	
Erosion Control	,			•	
Does the applied ten coverage for the affe	nporary erosion control provide 100% cted areas?	<b>√</b>		100% coverage	e around swales
	egetated areas that may require temporary		<b>✓</b>		
Is the area where ero	osion controls are used required free from	<b>√</b>			
Temporary Linear S	sediment Barriers (Silt Fence, Fiber Roll	s, Sand	bag Bar	riers, etc.)	
Are temporary linear functional and mainta	sediment barriers properly installed, ained?	<b>√</b>		waddles alon	g swale lines
Are temporary linear	sediment barriers free of accumulated litte	er? 🗸			
Is the built-up sedime	ent less than 1/3 the height of the barrier?	<b>√</b>			
Stockpiles				-	
	emporary stockpiles (include soil, haz wast	e, <b>/</b>			
Are stockpiles protect	terials) in approved areas? eted from run-on, run-off from adjacent are	as /		1	
and from winds?  Are stockpiles locate	d at least 15 m (50 ft) from concentrated	<b>V</b>	$\vdash \vdash$	<u>]</u>	
	rainage courses and storm drain inlets?	✓			
Are required covers	and/or perimeter controls in place?				

INSPECTION OF	ВМ	Ps		
ВМР	Yes	No	N/A	Corrective Action/Comments
Concentrated Flows				
Are concentrated flow paths free of visible erosion?	<b>/</b>			
Tracking Control				
Is the entrance stabilized to prevent tracking	1			
Is the stabilized entrance inspected daily to ensure that it is working properly	<b>√</b>			
Are points of ingress/egress to public/private roads inspected and swept and vacuumed as needed?	<b>√</b>			
Are all paved areas free of visible sediment tracking or other particulate matter?	<b>√</b>			
Wind Erosion Control				
Is dust control implemented?	<b>√</b>			water truck and dust monitoring both in place
Vehicle & Equipment Fueling, Cleaning, and Maintenance				
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other	<b>/</b>			
deleterious material?  Are vehicle and equipment fueling, cleaning and maintenance				
activities performed on an impermeable surface in dedicated areas?	<b>√</b>			
If no, are drip pans used?				
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m (50 ft) away from downstream drainage facilities and watercourses and protected from run-on and runoff?	<b>√</b>			
Is wash water contained for infiltration/ evaporation and disposed of appropriately?	<b>√</b>			
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	<b>√</b>			
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?	<b>√</b>			yes, per daily inspection sheets
Waste Management & Materials Pollution Control				
Are material storage areas and washout areas protected from				
run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	✓			
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	<b>√</b>			
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?	<b>√</b>			gas cans and motor oil
Are bagged and boxed materials stored on pallets?	<b>/</b>			
Are hazardous materials and wastes stored in appropriate, labeled containers?	<u>√</u>			
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?	<b>√</b>			
Are temporary containment facilities free of spills and rainwater?	1			
Are temporary containment facilities and bagged/boxed materials covered?	<b>√</b>			
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?	<b>√</b>			

INSPECTION OF BMPs						
ВМР	Yes	No	N/A	Corrective Action/Comments		
Is the site free of litter?	<b>✓</b>					
Are trash receptacles provided in the yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	<b>√</b>					
Is litter from work areas collected and placed in watertight dumpsters?	<b>√</b>					
Are waste management receptacles free of leaks?	$\checkmark$					
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	<b>√</b>					
Are waste management receptacles filled at or beyond capacity?		<b>✓</b>				
Illicit Connection/ Discharge						
Is there any evidence of illicit discharges or illegal dumping on the project site?		<b>√</b>				
If yes, has the Owner/Operator been notified?						
SWPPP Update						
Do the SWPPP and Project Schedule adequately reflect the current site conditions and contractor operations?	<b>√</b>					
Are all BMPs installed in the proper location(s) and according to the details in the SWPPP?	<b>√</b>					
General						
Are there any other potential concerns at the site?		<b>√</b>				
Storm Water Monitoring						
Does storm water discharge directly to a water body listed in the General Permit as impaired for sediment/sedimentation or turbidity?			<b>√</b>	No storms were observed		
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan in the SWPPP?						
Did the sampling results indicate that the discharges are causing or contributing to further impairment?			<b>√</b>			
If yes, were the erosion/sediment control BMPs improved or maintained to reduce the discharge of sediment to the water body?						
Were there any BMPs not properly implemented or breaches, malfunctions, leakages or spills observed which could result in the discharge of pollutants to surface waters that would not be visually detectable in storm water?			<b>√</b>			
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?						
If sampling indicated pollution of the storm water, were the leaks, breaches, spills, etc. cleaned up and the contaminated soil properly disposed of?			<b>√</b>			
Were the BMPs maintained or replaced?	<b>√</b>					

INSPECTION OF BMPs						
ВМР	Yes	No	N/A	Corrective Action/Comments		
Were soil amendments (e.g., gypsum, lime) used on the project?		<b>√</b>				
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?						
If sampling indicated pollution of the storm water by the use of the soil amendments, is there a contingency plan for retention onsite of the polluted storm water?			<b>√</b>			
Did storm water contact stored materials or waste and run off the construction site? (Materials not in watertight containers, etc.)			<b>√</b>			
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?						

GENERAL INFORMATION					
Project Name	Project Name Parcel D-1 Remedial Action, Hunters Point Shipyard, San Francisco, California				
Project No. Contract No. N62473-17-D-0006, CTO-N62473-17-F-4550					
Construction Stage	Excavation and Earthmoving Inactive Construction	Work Ar	ea No.		
Inspector's Name	Eddie K. Kalombo	Date		Oct/03/20	18
Signature	BU har-	Weathe	r	Rain	
	Prior to forecast rain		<b>√</b>	After a rain event	
Inspection Type (Check Applicable)	Weekly			Quarterly non-storm	water
	24-hr intervals during extended ra	ain		Other	
Season (Check Applicable)	<b>✓</b> Rainy			Non-Rainy	
Storm Data	Storm Start Date & Time:		Stor	m Duration (hrs):	
(www.wrh.noaa.gov)	Time elapsed since last storm (Circle Applicable Units)	Hr. Days		roximate Rainfall ount (inches)	
	INSPECTION	OF BMP	s		
	ВМР	Yes N	o N/A	Corrective Act	ion/Comments
Preservation of Exis	sting Vegetation				
Is temporary fencing where no constructio	provided to preserve vegetation in areas n activity is planned?	<b>✓</b>			
Erosion Control					
coverage for the affe	nporary erosion control provide 100% cted areas?	<b>√</b>		100% coverage	e around swales
Are there any non-ve erosion control?	getated areas that may require temporary				
	osion controls are used required free from	<b>√</b>			
Temporary Linear S	ediment Barriers (Silt Fence, Fiber Roll	s, Sandba	g Barri	iers, etc.)	
Are temporary linear functional and mainta	sediment barriers properly installed, ained?	<b>√</b>		waddles alon	g swale lines
Are temporary linear	sediment barriers free of accumulated litte	er? 🗸			
Is the built-up sedime	ent less than 1/3 the height of the barrier?	1			
Stockpiles					
Are all locations of te	emporary stockpiles (include soil, haz wast terials) in approved areas?	e, <b>/</b>			
	ted from run-on, run-off from adjacent are				
Are stockpiles locate	d at least 15 m (50 ft) from concentrated rainage courses and storm drain inlets?	1			
	and/or perimeter controls in place?	1			

INSPECTION OF	ВМ	Ps		
ВМР	Yes	No	N/A	Corrective Action/Comments
Concentrated Flows				
Are concentrated flow paths free of visible erosion?	<b>/</b>			
Tracking Control				
Is the entrance stabilized to prevent tracking	/			
Is the stabilized entrance inspected daily to ensure that it is working properly	<b>√</b>			
Are points of ingress/egress to public/private roads inspected and swept and vacuumed as needed?	<b>√</b>			
Are all paved areas free of visible sediment tracking or other particulate matter?	<b>√</b>			
Wind Erosion Control				
Is dust control implemented?	<b>√</b>			water truck and dust monitoring both in place
Vehicle & Equipment Fueling, Cleaning, and Maintenance				
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other	<b>/</b>			
deleterious material?  Are vehicle and equipment fueling, cleaning and maintenance				
activities performed on an impermeable surface in dedicated areas?	<b>√</b>			
If no, are drip pans used?				
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m (50 ft) away from downstream drainage facilities and watercourses and protected from run-on and runoff?	<b>√</b>			
Is wash water contained for infiltration/ evaporation and disposed of appropriately?	<b>√</b>			
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	<b>√</b>			
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?	<b>√</b>			yes, per daily inspection sheets
Waste Management & Materials Pollution Control				
Are material storage areas and washout areas protected from				
run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	✓			
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	<b>√</b>			
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?	<b>√</b>			gas cans and motor oil
Are bagged and boxed materials stored on pallets?	<b>/</b>			
Are hazardous materials and wastes stored in appropriate, labeled containers?	<u>√</u>			
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?	<b>√</b>			
Are temporary containment facilities free of spills and rainwater?	1			
Are temporary containment facilities and bagged/boxed materials covered?	<b>√</b>			
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?	<b>√</b>			

INSPECTION OF BMPs						
ВМР	Yes	No	N/A	Corrective Action/Comments		
Is the site free of litter?	1					
Are trash receptacles provided in the yard, field trailer areas, and		_				
at locations where workers congregate for lunch and break periods?	$\checkmark$					
is litter from work areas collected and placed in watertight	/					
dumpsters?	<b>V</b>		H			
Are waste management receptacles free of leaks?	$\checkmark$					
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	<b>√</b>					
Are waste management receptacles filled at or beyond capacity?		/				
Illicit Connection/ Discharge						
Is there any evidence of illicit discharges or illegal dumping on						
the project site?		<b>✓</b>				
If yes, has the Owner/Operator been notified?						
SWPPP Update						
Do the SWPPP and Project Schedule adequately reflect the	/					
current site conditions and contractor operations?  Are all BMPs installed in the proper location(s) and according to						
the details in the SWPPP?	<b>✓</b>					
General						
Are there any other potential concerns at the site?		<b>√</b>				
Storm Water Monitoring						
Does storm water discharge directly to a water body listed in the						
General Permit as impaired for sediment/sedimentation or turbidity?	<b>√</b>			SF Bay is impaired for sediment and turbidity		
If yes, were samples for sediment/sedimentation or turbidity		-		Nie illieit die elegene elegene d		
collected pursuant to the sampling and analysis plan in the SWPPP?		<b>√</b>	Ш	No illicit discharge observed		
Did the sampling results indicate that the discharges are causing	П		1			
or contributing to further impairment?	Ш		<b>✓</b>			
If yes, were the erosion/sediment control BMPs improved or						
maintained to reduce the discharge of sediment to the water						
body?						
Were there any BMPs not properly implemented or breaches, malfunctions, leakages or spills observed which could result in						
the discharge of pollutants to surface waters that would not be			✓			
visually detectable in storm water?						
If yes, were samples for non-visually detectable pollutants			$\vdash$			
collected pursuant to the sampling and analysis plan during rain events?			Щ			
If sampling indicated pollution of the storm water, were the leaks,	$\vdash$					
breaches, spills, etc. cleaned up and the contaminated soil properly disposed of?	$oxed{oxed}$		✓			
Were the BMPs maintained or replaced?						
·	<b>V</b>					

INSPECTION OF BMPs						
ВМР	Yes	No	N/A	Corrective Action/Comments		
Were soil amendments (e.g., gypsum, lime) used on the project?		<b>√</b>				
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?						
If sampling indicated pollution of the storm water by the use of the soil amendments, is there a contingency plan for retention onsite of the polluted storm water?			<b>√</b>			
Did storm water contact stored materials or waste and run off the construction site? (Materials not in watertight containers, etc.)			<b>√</b>			
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?						

	GENERAL INF	ORMATION	1		
Project Name	Project Name Parcel D-1 Remedial Action, Hunters Point Shipyard, San Francisco, California				
Project No.	Contract No. N62473-17	7-D-000	6, 0	CTO-N62473	3-17-F-4550
Construction Stage	Excavation and Earthmoving Inactive Construction	Work Are	a No.		
Inspector's Name	Eddie K. Kalombo	Date		Oct/12/20	18
Signature	File HALL	Weather		Sunny	
	Prior to forecast rain			After a rain event	
Inspection Type (Check Applicable)	✓ Weekly			Quarterly non-storm	water
	24-hr intervals during extended	rain		Other	
Season (Check Applicable)	<b>✓</b> Rainy			Non-Rainy	
Storm Data	Storm Start Date & Time:		Sto	rm Duration (hrs):	
(www.wrh.noaa.gov)	Time elapsed since last storm (Circle Applicable Units) 9 day	S Hr. Days		oroximate Rainfall ount (inches)	0.16
	INSPECTION		1 1		
	ВМР	Yes No	N/A	Corrective Act	ion/Comments
Preservation of Exi					
	provided to preserve vegetation in areas n activity is planned?				
Erosion Control					
Does the applied ten coverage for the affe	nporary erosion control provide 100% cted areas?	$\checkmark$		100% arour	nd swales
Are there any non-vee erosion control?	egetated areas that may require temporar	y <b>\</b>			
	osion controls are used required free from	<b>√</b>			
Temporary Linear S	Sediment Barriers (Silt Fence, Fiber Ro	ls, Sandbag	Barr	iers, etc.)	
Are temporary linear functional and mainta	sediment barriers properly installed, ained?	<b>√</b>		waddles alon	g swale lines
Are temporary linear	sediment barriers free of accumulated litt	er?			
Is the built-up sedime	ent less than 1/3 the height of the barrier?	<b>√</b>			
Stockpiles					
	emporary stockpiles (include soil, haz was terials) in approved areas?	te,			
	terials) in approved areas? Sted from run-on, run-off from adjacent are	eas 🗸			
Are stockpiles locate	d at least 15 m (50 ft) from concentrated	1	Ħ		
	rainage courses and storm drain inlets? and/or perimeter controls in place?	/	H		

INSPECTION OF BMPs							
ВМР	Yes	No	N/A	Corrective Action/Comments			
Concentrated Flows							
Are concentrated flow paths free of visible erosion?	<b>/</b>						
Tracking Control							
Is the entrance stabilized to prevent tracking	<b>/</b>						
Is the stabilized entrance inspected daily to ensure that it is working properly	<b>√</b>						
Are points of ingress/egress to public/private roads inspected and swept and vacuumed as needed?	<b>√</b>						
Are all paved areas free of visible sediment tracking or other particulate matter?	<b>✓</b>						
Wind Erosion Control							
Is dust control implemented?	<b>√</b>			water truck and dust monitoring both in place			
Vehicle & Equipment Fueling, Cleaning, and Maintenance							
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious material?	<b>√</b>						
Are vehicle and equipment fueling, cleaning and maintenance							
activities performed on an impermeable surface in dedicated areas?	<b>✓</b>		L				
If no, are drip pans used?							
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m (50 ft) away from downstream drainage facilities and watercourses and protected from run-on and runoff?	<b>√</b>						
Is wash water contained for infiltration/ evaporation and disposed of appropriately?	<b>√</b>						
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	<b>√</b>						
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?	<b>√</b>			yes, per daily inspection sheets			
Waste Management & Materials Pollution Control							
Are material storage areas and washout areas protected from run-on and runoff, and located at least 15 m from concentrated							
flows and downstream drainage facilities?	<b>V</b>						
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	<b>√</b>						
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?	<b>√</b>			gas cans and motor oil			
Are bagged and boxed materials stored on pallets?	1						
Are hazardous materials and wastes stored in appropriate, labeled containers?	<b>√</b>						
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?	<b>√</b>						
Are temporary containment facilities free of spills and rainwater?	1						
Are temporary containment facilities and bagged/boxed materials covered?	<b>√</b>						
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?	<b>√</b>						

INSPECTION OF BMPs						
ВМР	Yes	No	N/A	Corrective Action/Comments		
Is the site free of litter?	<b>/</b>					
Are trash receptacles provided in the yard, field trailer areas, and						
at locations where workers congregate for lunch and break periods?	$\checkmark$					
is litter from work areas collected and placed in watertight	./					
dumpsters?	<u>v</u>		H			
Are waste management receptacles free of leaks?	✓					
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	<b>✓</b>					
Are waste management receptacles filled at or beyond capacity?		<b>√</b>				
Illicit Connection/ Discharge						
Is there any evidence of illicit discharges or illegal dumping on						
the project site?		✓				
If yes, has the Owner/Operator been notified?						
SWPPP Update						
Do the SWPPP and Project Schedule adequately reflect the	1		П			
current site conditions and contractor operations?  Are all BMPs installed in the proper location(s) and according to		H				
the details in the SWPPP?	$\checkmark$					
General						
Are there any other potential concerns at the site?		<b>\</b>				
Storm Water Monitoring						
Does storm water discharge directly to a water body listed in the						
General Permit as impaired for sediment/sedimentation or turbidity?	Ш		<b>√</b>	No storms were observed		
If yes, were samples for sediment/sedimentation or turbidity						
collected pursuant to the sampling and analysis plan in the SWPPP?			Ш			
Did the sampling results indicate that the discharges are causing or contributing to further impairment?			/			
			•			
If yes, were the erosion/sediment control BMPs improved or						
maintained to reduce the discharge of sediment to the water body?			Ш			
Were there any BMPs not properly implemented or breaches,						
malfunctions, leakages or spills observed which could result in the discharge of pollutants to surface waters that would not be			1			
visually detectable in storm water?						
If yes, were samples for non-visually detectable pollutants						
collected pursuant to the sampling and analysis plan during						
rain events?						
If sampling indicated pollution of the storm water, were the leaks, breaches, spills, etc. cleaned up and the contaminated soil			1			
properly disposed of?						
Were the BMPs maintained or replaced?						

INSPECTION OF BMPs					
ВМР	Yes	No	N/A	Corrective Action/Comments	
Were soil amendments (e.g., gypsum, lime) used on the project?		<b>√</b>			
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?					
If sampling indicated pollution of the storm water by the use of the soil amendments, is there a contingency plan for retention onsite of the polluted storm water?			<b>√</b>		
Did storm water contact stored materials or waste and run off the construction site? (Materials not in watertight containers, etc.)			<b>√</b>		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?					

	GENERAL II	NFORMA <sup>-</sup>	TION			
Project Name	Project Name Parcel D-1 Remedial Action, Hunters Point Shipyard, San Francisco, California					
Project No.	Project No. Contract No. N62473-17-D-0006, CTO-N62473-17-F-4550					
Construction Stage	Excavation and Earthmoving Inactive Construction	Work	Area N	Ю.		
Inspector's Name	Eddie K. Kalombo	Date			Oct/19/20	18
Signature	Fix here	Weat	her		Sunny	
	Prior to forecast rain	•			After a rain event	
Inspection Type (Check Applicable)	✓ Weekly				Quarterly non-storm	water
	24-hr intervals during extende	d rain			Other	
Season (Check Applicable)	✓ Rainy				Non-Rainy	
Storm Data	Storm Start Date & Time:		5	Stor	rm Duration (hrs):	
(www.wrh.noaa.gov)	Time elapsed since last storm (Circle Applicable Units) 17 d	•			oroximate Rainfall ount (inches)	0.16
INSPECTION OF BMPs						
	ВМР	Yes	No N	Α	Corrective Act	ion/Comments
Preservation of Exis	<u> </u>					
	provided to preserve vegetation in are nactivity is planned?	as 🗸				
Erosion Control						
Does the applied ten coverage for the affe	nporary erosion control provide 100% cted areas?	<b>√</b>			100% coverage	e around swales
Are there any non-ve erosion control?	getated areas that may require tempor	ary	<b>V</b>			
	osion controls are used required free fro	om 🗸		Ī		
	ediment Barriers (Silt Fence, Fiber F	Rolls, Sand	lbag B	arr	iers, etc.)	
Are temporary linear functional and mainta	sediment barriers properly installed, ained?	<b>√</b>			waddles alon	g swale lines
Are temporary linear	sediment barriers free of accumulated	litter?				
Is the built-up sedime	ent less than 1/3 the height of the barri	er?				
Stockpiles						
	emporary stockpiles (include soil, haz w	aste,				
	terials) in approved areas? sted from run-on, run-off from adjacent	areas 🗸		╡		
Are stockpiles locate	d at least 15 m (50 ft) from concentrate			Ħ		
	rainage courses and storm drain inlets and/or perimeter controls in place?	· •		╡		

INSPECTION OF BMPs							
ВМР	Yes	No	N/A	Corrective Action/Comments			
Concentrated Flows							
Are concentrated flow paths free of visible erosion?	<b>/</b>						
Tracking Control							
Is the entrance stabilized to prevent tracking	<b>/</b>						
Is the stabilized entrance inspected daily to ensure that it is working properly	<b>√</b>						
Are points of ingress/egress to public/private roads inspected and swept and vacuumed as needed?	<b>√</b>						
Are all paved areas free of visible sediment tracking or other particulate matter?	<b>√</b>						
Wind Erosion Control							
Is dust control implemented?	<b>√</b>			water truck and dust monitoring both in place			
Vehicle & Equipment Fueling, Cleaning, and Maintenance							
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other	<b>/</b>						
deleterious material?  Are vehicle and equipment fueling, cleaning and maintenance							
activities performed on an impermeable surface in dedicated areas?	<b>√</b>						
If no, are drip pans used?							
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m (50 ft) away from downstream drainage facilities and watercourses and protected from run-on and runoff?	<b>√</b>						
Is wash water contained for infiltration/ evaporation and disposed of appropriately?	<b>√</b>						
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	<b>√</b>						
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?	<b>√</b>			yes, per daily inspection sheets			
Waste Management & Materials Pollution Control							
Are material storage areas and washout areas protected from							
run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	✓						
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	<b>√</b>						
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?	<b>√</b>			gas cans and motor oil			
Are bagged and boxed materials stored on pallets?	<b>/</b>						
Are hazardous materials and wastes stored in appropriate, labeled containers?	<u>√</u>						
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?	<b>√</b>						
Are temporary containment facilities free of spills and rainwater?	1						
Are temporary containment facilities and bagged/boxed materials covered?	<b>\</b>						
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?	<b>√</b>						

INSPECTION OF BMPs						
ВМР	Yes	No	N/A	Corrective Action/Comments		
Is the site free of litter?	<b>✓</b>					
Are trash receptacles provided in the yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	<b>✓</b>					
Is litter from work areas collected and placed in watertight dumpsters?	<b>√</b>					
Are waste management receptacles free of leaks?	<b>√</b>					
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	<b>√</b>					
Are waste management receptacles filled at or beyond capacity?		<b>✓</b>				
Illicit Connection/ Discharge						
Is there any evidence of illicit discharges or illegal dumping on the project site?		<b>√</b>				
If yes, has the Owner/Operator been notified?						
SWPPP Update						
Do the SWPPP and Project Schedule adequately reflect the current site conditions and contractor operations?	<b>√</b>					
Are all BMPs installed in the proper location(s) and according to the details in the SWPPP?	<b>√</b>					
General						
Are there any other potential concerns at the site?		✓				
Storm Water Monitoring						
Does storm water discharge directly to a water body listed in the General Permit as impaired for sediment/sedimentation or turbidity?			<b>√</b>	No storms were observed		
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan in the SWPPP?						
Did the sampling results indicate that the discharges are causing or contributing to further impairment?			<b>√</b>			
If yes, were the erosion/sediment control BMPs improved or maintained to reduce the discharge of sediment to the water body?						
Were there any BMPs not properly implemented or breaches, malfunctions, leakages or spills observed which could result in the discharge of pollutants to surface waters that would not be visually detectable in storm water?			<b>√</b>			
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?						
If sampling indicated pollution of the storm water, were the leaks, breaches, spills, etc. cleaned up and the contaminated soil properly disposed of?			<b>√</b>			
Were the BMPs maintained or replaced?	<b>√</b>					

INSPECTION OF BMPs						
ВМР	Yes	No	N/A	Corrective Action/Comments		
Were soil amendments (e.g., gypsum, lime) used on the project?		<b>√</b>				
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?						
If sampling indicated pollution of the storm water by the use of the soil amendments, is there a contingency plan for retention onsite of the polluted storm water?			<b>√</b>			
Did storm water contact stored materials or waste and run off the construction site? (Materials not in watertight containers, etc.)			<b>√</b>			
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?						

	GENERAL INI	ORMATIO	N		
Project Name Parcel D-1 Remedial Action, Hunters Point Shipyard, San Francisco, California					
Project No.	Contract No. N62473-1	7-D-000	)6, C	CTO-N62473	3-17-F-4550
Construction Stage	Excavation and Earthmoving Inactive Construction	Work Are	ea No.		
Inspector's Name	Eddie K. Kalombo	Date		Oct/26/20	18
Signature	Bu hash	Weather	-	Sunny	
	Prior to forecast rain	-		After a rain event	
Inspection Type (Check Applicable)	✓ Weekly			Quarterly non-storm	water
	24-hr intervals during extended	rain		Other	
Season (Check Applicable)	<b>✓</b> Rainy			Non-Rainy	
Storm Data	Storm Start Date & Time:		Stor	rm Duration (hrs):	
(www.wrh.noaa.gov)	Time elapsed since last storm (Circle Applicable Units) 24 da Min.	y <b>S</b> Hr. Days		oroximate Rainfall ount (inches)	0.16
INSPECTION OF BMPs					
	ВМР	Yes No	o N/A	Corrective Act	ion/Comments
Preservation of Exis					
	provided to preserve vegetation in areas n activity is planned?				
Erosion Control					
coverage for the affe		<b>√</b>		100% coverage	e around swales
Are there any non-ve erosion control?	egetated areas that may require tempora	у 🗸			
	osion controls are used required free from				
Temporary Linear S	sediment Barriers (Silt Fence, Fiber Ro	lls, Sandba	g Barr	iers, etc.)	
Are temporary linear functional and mainta	sediment barriers properly installed, ained?	<b>√</b>		waddles along sw	ale and fence line
Are temporary linear	sediment barriers free of accumulated li	ter?			
Is the built-up sedime	ent less than 1/3 the height of the barrier	?			
Stockpiles			"		
	emporary stockpiles (include soil, haz wa	ste,			
	terials) in approved areas? eted from run-on, run-off from adjacent ar	eas 🗸	Ħ		
Are stockpiles locate	d at least 15 m (50 ft) from concentrated		+		
	rainage courses and storm drain inlets? and/or perimeter controls in place?	1			

INSPECTION OF BMPs							
ВМР	Yes	No	N/A	Corrective Action/Comments			
Concentrated Flows							
Are concentrated flow paths free of visible erosion?	<b>/</b>						
Tracking Control							
Is the entrance stabilized to prevent tracking	<b>/</b>						
Is the stabilized entrance inspected daily to ensure that it is working properly	<b>√</b>						
Are points of ingress/egress to public/private roads inspected and swept and vacuumed as needed?	<b>√</b>						
Are all paved areas free of visible sediment tracking or other particulate matter?	<b>√</b>						
Wind Erosion Control							
Is dust control implemented?	<b>√</b>			water truck and dust monitoring both in place			
Vehicle & Equipment Fueling, Cleaning, and Maintenance							
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other	<b>/</b>						
deleterious material?  Are vehicle and equipment fueling, cleaning and maintenance							
activities performed on an impermeable surface in dedicated areas?	<b>√</b>						
If no, are drip pans used?							
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m (50 ft) away from downstream drainage facilities and watercourses and protected from run-on and runoff?	<b>√</b>						
Is wash water contained for infiltration/ evaporation and disposed of appropriately?	<b>√</b>						
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	<b>√</b>						
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?	<b>√</b>			yes, per daily inspection sheets			
Waste Management & Materials Pollution Control							
Are material storage areas and washout areas protected from							
run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	✓						
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	<b>√</b>						
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?	<b>√</b>			gas cans and motor oil			
Are bagged and boxed materials stored on pallets?	<b>/</b>						
Are hazardous materials and wastes stored in appropriate, labeled containers?	<u>√</u>						
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?	<b>√</b>						
Are temporary containment facilities free of spills and rainwater?	1						
Are temporary containment facilities and bagged/boxed materials covered?	<b>\</b>						
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?	<b>√</b>						

INSPECTION OF BMPs						
ВМР	Yes	No	N/A	Corrective Action/Comments		
Is the site free of litter?	<b>✓</b>					
Are trash receptacles provided in the yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	<b>√</b>					
ls litter from work areas collected and placed in watertight dumpsters?	<b>✓</b>					
Are waste management receptacles free of leaks?	<b>√</b>					
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	<b>√</b>					
Are waste management receptacles filled at or beyond capacity?		<b>/</b>				
Illicit Connection/ Discharge						
Is there any evidence of illicit discharges or illegal dumping on the project site?		<b>√</b>				
If yes, has the Owner/Operator been notified?						
SWPPP Update						
Do the SWPPP and Project Schedule adequately reflect the current site conditions and contractor operations?	<b>√</b>					
Are all BMPs installed in the proper location(s) and according to the details in the SWPPP?	<b>✓</b>					
General						
Are there any other potential concerns at the site?		<b>√</b>				
Storm Water Monitoring						
Does storm water discharge directly to a water body listed in the General Permit as impaired for sediment/sedimentation or turbidity?			<b>√</b>	No storms were observed		
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan in the SWPPP?						
Did the sampling results indicate that the discharges are causing or contributing to further impairment?			<b>√</b>			
If yes, were the erosion/sediment control BMPs improved or maintained to reduce the discharge of sediment to the water body?						
Were there any BMPs not properly implemented or breaches, malfunctions, leakages or spills observed which could result in						
the discharge of pollutants to surface waters that would not be visually detectable in storm water?			<b>√</b>			
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?						
If sampling indicated pollution of the storm water, were the leaks, breaches, spills, etc. cleaned up and the contaminated soil properly disposed of?			<b>√</b>			
Were the BMPs maintained or replaced?	<b>√</b>					

INSPECTION OF BMPs						
ВМР	Yes	No	N/A	Corrective Action/Comments		
Were soil amendments (e.g., gypsum, lime) used on the project?		<b>√</b>				
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?						
If sampling indicated pollution of the storm water by the use of the soil amendments, is there a contingency plan for retention onsite of the polluted storm water?			<b>√</b>			
Did storm water contact stored materials or waste and run off the construction site? (Materials not in watertight containers, etc.)			<b>√</b>			
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?						

	GENERAL INFO	RMATIO	N			
Project Name Parcel D-1 Remedial Action, Hunters Point Shipyard, San Francisco, California						
Project No. Contract No. N62473-17-D-0006, CTO-N62473-17-F-4550						
Construction Stage	Excavation and Earthmoving Inactive Construction	Work Are	ea No.			
Inspector's Name	Eddie K. Kalombo	Date		Nov/02/20	18	
Signature	EN hale	Weather		Sunny		
	Prior to forecast rain			After a rain event		
Inspection Type (Check Applicable)	✓ Weekly			Quarterly non-storm	water	
	24-hr intervals during extended ra	in		Other		
Season (Check Applicable)	✓ Rainy			Non-Rainy		
Storm Data	Storm Start Date & Time:		Stor	rm Duration (hrs):		
(www.wrh.noaa.gov)	Time elapsed since last storm (Circle Applicable Units) 31 days	łr. Days		oroximate Rainfall ount (inches)	0.16	
	INSPECTION OF BMPs					
	ВМР	Yes No	N/A	Corrective Act	ion/Comments	
Preservation of Exis						
	provided to preserve vegetation in areas n activity is planned?	<b>✓</b>				
Erosion Control						
coverage for the affe		<b>√</b>		100% coverage	e around swales	
Are there any non-ve erosion control?	egetated areas that may require temporary					
	osion controls are used required free from	<b>√</b>				
Temporary Linear S	Sediment Barriers (Silt Fence, Fiber Rolls	s, Sandba	g Barr	iers, etc.)		
Are temporary linear functional and mainta	sediment barriers properly installed, ained?	$\checkmark$		waddles along sw	ale and fence line	
Are temporary linear	sediment barriers free of accumulated litte	r? 🗸				
Is the built-up sedime	ent less than 1/3 the height of the barrier?	1	$\Box$			
Stockpiles			"			
	emporary stockpiles (include soil, haz waste	e, <b>/</b>				
	terials) in approved areas? eted from run-on, run-off from adjacent area	as 🗸				
Are stockpiles locate	d at least 15 m (50 ft) from concentrated					
	rainage courses and storm drain inlets? and/or perimeter controls in place?	7	╬			

INSPECTION OF BMPs						
ВМР	Yes	No	N/A	Corrective Action/Comments		
Concentrated Flows						
Are concentrated flow paths free of visible erosion?	<b>/</b>					
Tracking Control						
Is the entrance stabilized to prevent tracking	1					
Is the stabilized entrance inspected daily to ensure that it is working properly	<b>√</b>					
Are points of ingress/egress to public/private roads inspected and swept and vacuumed as needed?	<b>√</b>					
Are all paved areas free of visible sediment tracking or other particulate matter?	<b>√</b>					
Wind Erosion Control						
Is dust control implemented?	<b>√</b>			water truck and dust monitoring both in place		
Vehicle & Equipment Fueling, Cleaning, and Maintenance						
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other	<b>/</b>					
deleterious material?  Are vehicle and equipment fueling, cleaning and maintenance						
activities performed on an impermeable surface in dedicated areas?	<b>√</b>					
If no, are drip pans used?						
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m (50 ft) away from downstream drainage facilities and watercourses and protected from run-on and runoff?	<b>√</b>					
Is wash water contained for infiltration/ evaporation and disposed of appropriately?	<b>√</b>					
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	<b>√</b>					
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?	<b>√</b>			yes, per daily inspection sheets		
Waste Management & Materials Pollution Control						
Are material storage areas and washout areas protected from						
run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	✓					
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	<b>√</b>					
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?	<b>√</b>			gas cans and motor oil		
Are bagged and boxed materials stored on pallets?	<b>/</b>					
Are hazardous materials and wastes stored in appropriate, labeled containers?	<u>√</u>					
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?	<b>√</b>					
Are temporary containment facilities free of spills and rainwater?	1					
Are temporary containment facilities and bagged/boxed materials covered?	<b>√</b>					
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?	<b>√</b>					

INSPECTION OF BMPs						
ВМР	Yes	No	N/A	Corrective Action/Comments		
Is the site free of litter?	<b>✓</b>					
Are trash receptacles provided in the yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	<b>√</b>					
ls litter from work areas collected and placed in watertight dumpsters?	<b>✓</b>					
Are waste management receptacles free of leaks?	<b>√</b>					
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	<b>√</b>					
Are waste management receptacles filled at or beyond capacity?		<b>/</b>				
Illicit Connection/ Discharge						
Is there any evidence of illicit discharges or illegal dumping on the project site?		<b>√</b>				
If yes, has the Owner/Operator been notified?						
SWPPP Update						
Do the SWPPP and Project Schedule adequately reflect the current site conditions and contractor operations?	<b>√</b>					
Are all BMPs installed in the proper location(s) and according to the details in the SWPPP?	<b>✓</b>					
General						
Are there any other potential concerns at the site?		<b>√</b>				
Storm Water Monitoring						
Does storm water discharge directly to a water body listed in the General Permit as impaired for sediment/sedimentation or turbidity?			<b>√</b>	No storms were observed		
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan in the SWPPP?						
Did the sampling results indicate that the discharges are causing or contributing to further impairment?			<b>√</b>			
If yes, were the erosion/sediment control BMPs improved or maintained to reduce the discharge of sediment to the water body?						
Were there any BMPs not properly implemented or breaches, malfunctions, leakages or spills observed which could result in						
the discharge of pollutants to surface waters that would not be visually detectable in storm water?			<b>√</b>			
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?						
If sampling indicated pollution of the storm water, were the leaks, breaches, spills, etc. cleaned up and the contaminated soil properly disposed of?			<b>√</b>			
Were the BMPs maintained or replaced?	<b>√</b>					

INSPECTION OF BMPs						
ВМР	Yes	No	N/A	Corrective Action/Comments		
Were soil amendments (e.g., gypsum, lime) used on the project?		<b>√</b>				
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?						
If sampling indicated pollution of the storm water by the use of the soil amendments, is there a contingency plan for retention onsite of the polluted storm water?			<b>√</b>			
Did storm water contact stored materials or waste and run off the construction site? (Materials not in watertight containers, etc.)			<b>√</b>			
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?						

	GENERAL INFO	ORMAT	ION			
Project Name Parcel D-1 Remedial Action, Hunters Point Shipyard, San Francisco, California						
Project No.	Contract No. N62473-17	'-D-0	006	6, C	CTO-N62473	3-17-F-4550
Construction Stage	Excavation and Earthmoving Inactive Construction	Work	Area	No.		
Inspector's Name	Eddie K. Kalombo	Date			Nov/09/20	18
Signature	Bu hach	Weatl	her		Sunny	
	Prior to forecast rain	•			After a rain event	
Inspection Type (Check Applicable)	✓ Weekly				Quarterly non-storm	water
	24-hr intervals during extended r	ain			Other	
Season (Check Applicable)	<b>✓</b> Rainy				Non-Rainy	
Storm Data	Storm Start Date & Time:			Sto	rm Duration (hrs):	
(www.wrh.noaa.gov)	Time elapsed since last storm (Circle Applicable Units) 38 day	<b>/S</b> Hr. Day	ys		oroximate Rainfall ount (inches)	0.16
	INSPECTION	OF BM	Ps			
	ВМР	Yes	No	N/A	Corrective Act	tion/Comments
Preservation of Exi						
	provided to preserve vegetation in areas in activity is planned?	$\checkmark$				
Erosion Control						
Does the applied ten coverage for the affe	nporary erosion control provide 100% cted areas?	<b>√</b>			100% coverage	e around swales
	egetated areas that may require temporary	' <u> </u>	<b>✓</b>			
	osion controls are used required free from	<b>√</b>				
Temporary Linear S	sediment Barriers (Silt Fence, Fiber Rol	ls, Sand	bag	Barr	iers, etc.)	
Are temporary linear functional and mainta	sediment barriers properly installed, ained?	<b>√</b>			waddles along swa	ale and fence lines
	sediment barriers free of accumulated litte	er? 🗸				
Is the built-up sedime	ent less than 1/3 the height of the barrier?	1				
Stockpiles		<u>,                                    </u>				
	emporary stockpiles (include soil, haz wast	te,				
Are stockpiles protect	terials) in approved areas? tted from run-on, run-off from adjacent are	as /				
and from winds? Are stockpiles locate	d at least 15 m (50 ft) from concentrated	<u> </u>	H	$\models$		
flows, downstream d	rainage courses and storm drain inlets?	<b>▼</b>				
Are required covers a	and/or perimeter controls in place?					

INSPECTION OF	ВМ	IPs		
ВМР	Yes	No	N/A	Corrective Action/Comments
Concentrated Flows				
Are concentrated flow paths free of visible erosion?	<b>/</b>			
Tracking Control		-		
Is the entrance stabilized to prevent tracking	1			
Is the stabilized entrance inspected daily to ensure that it is working properly	1	Ī	╁	
Are points of ingress/egress to public/private roads inspected and swept and vacuumed as needed?	<u></u>			
Are all paved areas free of visible sediment tracking or other particulate matter?	<b>✓</b>			
Wind Erosion Control				
Is dust control implemented?		/	1	no dust control as parcel is fully paved
Vehicle & Equipment Fueling, Cleaning, and Maintenance		<u>.                                     </u>		
Are vehicle and equipment fueling, cleaning and maintenance				
areas reasonably clean and free of spills, leaks, or any other deleterious material?	$\checkmark$			
Are vehicle and equipment fueling, cleaning and maintenance			1	
activities performed on an impermeable surface in dedicated				
areas?	<b>V</b>	-	-	
If no, are drip pans used?				
Are dedicated fueling, cleaning, and maintenance areas located				
at least 15 m (50 ft) away from downstream drainage facilities and watercourses and protected from run-on and runoff?	<b>✓</b>		<u> </u>	
Is wash water contained for infiltration/ evaporation and disposed	1			
of appropriately? Is on-site cleaning limited to washing with water (no soap, soaps		⊨	⊨	
substitutes, solvents, or steam)?	✓			
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?	<b>√</b>			yes, per daily inspection sheets
Waste Management & Materials Pollution Control				
Are material storage areas and washout areas protected from				
run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	<b>✓</b>			
Are all material handling and storage areas clean; organized; free				
of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	$\checkmark$	L		
Are liquid materials, hazardous materials, and hazardous wastes	/			gas cans and motor oil
stored in temporary containment facilities?  Are bagged and boxed materials stored on pallets?				gae carre arra mieter en
Are hazardous materials and wastes stored in appropriate,	<b>V</b>	╠		
labeled containers?	<b>✓</b>			
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous	1			
and accessible locations adjacent to storage areas?	V	┞		
Are temporary containment facilities free of spills and rainwater?	<b>✓</b>			
Are temporary containment facilities and bagged/boxed materials covered?	<b>√</b>			
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?	<b>√</b>			
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INSPECTION OF BMPs						
ВМР	Yes	No	N/A	Corrective Action/Comments		
Is the site free of litter?	<b>✓</b>					
Are trash receptacles provided in the yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	<b>√</b>					
ls litter from work areas collected and placed in watertight dumpsters?	<b>✓</b>					
Are waste management receptacles free of leaks?	<b>√</b>					
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	<b>√</b>					
Are waste management receptacles filled at or beyond capacity?		<b>\</b>				
Illicit Connection/ Discharge						
Is there any evidence of illicit discharges or illegal dumping on the project site?		<b>√</b>				
If yes, has the Owner/Operator been notified?						
SWPPP Update						
Do the SWPPP and Project Schedule adequately reflect the current site conditions and contractor operations?	<b>√</b>					
Are all BMPs installed in the proper location(s) and according to the details in the SWPPP?	<b>✓</b>					
General						
Are there any other potential concerns at the site?		<b>√</b>				
Storm Water Monitoring						
Does storm water discharge directly to a water body listed in the General Permit as impaired for sediment/sedimentation or turbidity?			<b>√</b>	No storms were observed		
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan in the SWPPP?						
Did the sampling results indicate that the discharges are causing or contributing to further impairment?			<b>√</b>			
If yes, were the erosion/sediment control BMPs improved or maintained to reduce the discharge of sediment to the water body?						
Were there any BMPs not properly implemented or breaches, malfunctions, leakages or spills observed which could result in						
the discharge of pollutants to surface waters that would not be visually detectable in storm water?			<b>√</b>			
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?						
If sampling indicated pollution of the storm water, were the leaks, breaches, spills, etc. cleaned up and the contaminated soil properly disposed of?			<b>√</b>			
Were the BMPs maintained or replaced?	<b>√</b>					

INSPECTION OF BMPs						
ВМР	Yes	No	N/A	Corrective Action/Comments		
Were soil amendments (e.g., gypsum, lime) used on the project?		<b>√</b>				
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?						
If sampling indicated pollution of the storm water by the use of the soil amendments, is there a contingency plan for retention onsite of the polluted storm water?			<b>√</b>			
Did storm water contact stored materials or waste and run off the construction site? (Materials not in watertight containers, etc.)			<b>√</b>			
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?						



Figure 1: Manseau St. Swale Paving



Figure 2: Manseau St. Swale incoming Tide



Figure 3: Manseau St. Swale Paving Incoming Tide

	GENERAL	INFOR	MAT	ION	ı		
Project Name Parcel D-1 Remedial Action, Hunters Point Shipyard, San Francisco, California							
Project No. Contract No. N62473-17-D-0006, CTO-N62473-17-F-4550							
Construction Stage	Excavation and Earthmoving Inactive Construction	V	Vork	Area	a No.		
Inspector's Name	Eddie K. Kalombo	, [	ate			Nov/16/20	18
Signature	Ell hash	٧	Veatl	her		Sunny	
	Prior to forecast rain	•				After a rain event	
Inspection Type (Check Applicable)	✓ Weekly					Quarterly non-storm	water
	24-hr intervals during extend	led rain				Other	
Season (Check Applicable)	✓ Rainy					Non-Rainy	
Storm Data	Storm Start Date & Time:				Sto	rm Duration (hrs):	
(www.wrh.noaa.gov)	Time elapsed since last storm (Circle Applicable Units) 45	days n. Hr.	Day	ys		oroximate Rainfall ount (inches)	0.16
	INSPECT	ION OF	BM	Ps			
	ВМР		Yes	No	N/A	Corrective Act	tion/Comments
Preservation of Exi							
	provided to preserve vegetation in arm activity is planned?	eas	<b>✓</b>				
Erosion Control							
coverage for the affe			<b>√</b>			100% coverage	e around swales
Are there any non-vee erosion control?	egetated areas that may require tempo	orary		<b>/</b>			
	osion controls are used required free f	from	<b>√</b>				
Temporary Linear S	Sediment Barriers (Silt Fence, Fiber	Rolls, S	Sand	bag	Barr	iers, etc.)	
Are temporary linear functional and mainta	sediment barriers properly installed, ained?		<b>√</b>			waddles along sw	ale and fence line
Are temporary linear	sediment barriers free of accumulate	d litter?	1				
Is the built-up sedime	ent less than 1/3 the height of the bar	rier?	1				
Stockpiles							
	emporary stockpiles (include soil, haz	waste,	1				
	terials) in approved areas? sted from run-on, run-off from adjacen	t areas	<u>`</u>				
Are stockpiles locate	d at least 15 m (50 ft) from concentra		1		Ħ		
	rainage courses and storm drain inlet and/or perimeter controls in place?	S!			H		

INSPECTION OF	ВМ	IPs		
ВМР	Yes	No	N/A	Corrective Action/Comments
Concentrated Flows				
Are concentrated flow paths free of visible erosion?	<b>/</b>			
Tracking Control		-		
Is the entrance stabilized to prevent tracking	1			
Is the stabilized entrance inspected daily to ensure that it is working properly	1	Ī	╁	
Are points of ingress/egress to public/private roads inspected and swept and vacuumed as needed?	<u></u>			
Are all paved areas free of visible sediment tracking or other particulate matter?	<b>✓</b>			
Wind Erosion Control				
Is dust control implemented?		/	1	no dust control as parcel is fully paved
Vehicle & Equipment Fueling, Cleaning, and Maintenance		<u>.                                     </u>		
Are vehicle and equipment fueling, cleaning and maintenance				
areas reasonably clean and free of spills, leaks, or any other deleterious material?	$\checkmark$			
Are vehicle and equipment fueling, cleaning and maintenance			1	
activities performed on an impermeable surface in dedicated				
areas?	<b>V</b>	-	-	
If no, are drip pans used?				
Are dedicated fueling, cleaning, and maintenance areas located				
at least 15 m (50 ft) away from downstream drainage facilities and watercourses and protected from run-on and runoff?	<b>✓</b>		<u> </u>	
Is wash water contained for infiltration/ evaporation and disposed	1			
of appropriately? Is on-site cleaning limited to washing with water (no soap, soaps		⊨	⊨	
substitutes, solvents, or steam)?	✓			
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?	<b>√</b>			yes, per daily inspection sheets
Waste Management & Materials Pollution Control				
Are material storage areas and washout areas protected from				
run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	<b>✓</b>			
Are all material handling and storage areas clean; organized; free				
of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	$\checkmark$	L		
Are liquid materials, hazardous materials, and hazardous wastes	/			gas cans and motor oil
stored in temporary containment facilities?  Are bagged and boxed materials stored on pallets?				gae carre arra mieter en
Are hazardous materials and wastes stored in appropriate,	<b>V</b>	╠		
labeled containers?	<b>✓</b>			
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous	1			
and accessible locations adjacent to storage areas?	V	┞		
Are temporary containment facilities free of spills and rainwater?	<b>✓</b>			
Are temporary containment facilities and bagged/boxed materials covered?	<b>√</b>			
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?	<b>√</b>			
· · · · · · · · · · · · · · · · · · ·		_		•

INSPECTION OF BMPs						
ВМР	Yes	No	N/A	Corrective Action/Comments		
Is the site free of litter?	<b>✓</b>					
Are trash receptacles provided in the yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	<b>√</b>					
ls litter from work areas collected and placed in watertight dumpsters?	<b>✓</b>					
Are waste management receptacles free of leaks?	<b>√</b>					
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	<b>√</b>					
Are waste management receptacles filled at or beyond capacity?		<b>\</b>				
Illicit Connection/ Discharge						
Is there any evidence of illicit discharges or illegal dumping on the project site?		<b>√</b>				
If yes, has the Owner/Operator been notified?						
SWPPP Update						
Do the SWPPP and Project Schedule adequately reflect the current site conditions and contractor operations?	<b>√</b>					
Are all BMPs installed in the proper location(s) and according to the details in the SWPPP?	<b>✓</b>					
General						
Are there any other potential concerns at the site?		<b>√</b>				
Storm Water Monitoring						
Does storm water discharge directly to a water body listed in the General Permit as impaired for sediment/sedimentation or turbidity?			<b>√</b>	No storms were observed		
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan in the SWPPP?						
Did the sampling results indicate that the discharges are causing or contributing to further impairment?			<b>√</b>			
If yes, were the erosion/sediment control BMPs improved or maintained to reduce the discharge of sediment to the water body?						
Were there any BMPs not properly implemented or breaches, malfunctions, leakages or spills observed which could result in						
the discharge of pollutants to surface waters that would not be visually detectable in storm water?			<b>√</b>			
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?						
If sampling indicated pollution of the storm water, were the leaks, breaches, spills, etc. cleaned up and the contaminated soil properly disposed of?			<b>√</b>			
Were the BMPs maintained or replaced?	<b>√</b>					

INSPECTION OF BMPs						
ВМР	Yes	No	N/A	Corrective Action/Comments		
Were soil amendments (e.g., gypsum, lime) used on the project?		<b>√</b>				
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?						
If sampling indicated pollution of the storm water by the use of the soil amendments, is there a contingency plan for retention onsite of the polluted storm water?			<b>√</b>			
Did storm water contact stored materials or waste and run off the construction site? (Materials not in watertight containers, etc.)			<b>√</b>			
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?						

	GENERAL INFO	ORMAT	ION	1		
Project Name	Parcel D-1 Remedial Action, Hur	iters P	oint	t Shi	pyard, San Fran	cisco, California
Project No.	Contract No. N62473-17	-D-0	00	6, 0	CTO-N62473	3-17-F-4550
Construction Stage	Excavation and Earthmoving Inactive Construction	Work	Area	a No.		
Inspector's Name	Eddie K. Kalombo	Date			Nov/20/20	18
Signature	BU HALL	Weath	her		Sunny	
	✓ Prior to forecast rain				After a rain event	
Inspection Type (Check Applicable)	Weekly				Quarterly non-storm	water
	24-hr intervals during extended ra	ain			Other	
Season (Check Applicable)	<b>✓</b> Rainy				Non-Rainy	
Storm Data	Storm Start Date & Time:			Sto	rm Duration (hrs):	
(www.wrh.noaa.gov)	Time elapsed since last storm (Circle Applicable Units) 49 days	S Hr. Day	ys		oroximate Rainfall ount (inches)	0.16
	INSPECTION	OF BM	Ps			
	ВМР	Yes	No	N/A	Corrective Act	ion/Comments
Preservation of Exis	ting Vegetation					
Is temporary fencing purcey where no construction	provided to preserve vegetation in areas a activity is planned?	<b>✓</b>				
Erosion Control						
Does the applied tem coverage for the affect	porary erosion control provide 100%	<b>√</b>			100% coverage	around all swales
	getated areas that may require temporary		<b>√</b>			
	sion controls are used required free from	<b>√</b>				
Temporary Linear Se	ediment Barriers (Silt Fence, Fiber Roll	s, Sand	bag	Barr	iers, etc.)	
Are temporary linear s functional and mainta	sediment barriers properly installed, ined?	<b>√</b>			waddles along sw	ale and fence line
	sediment barriers free of accumulated litte	er? 🗸				
Is the built-up sedime	nt less than 1/3 the height of the barrier?	1		П		
Stockpiles						
	mporary stockpiles (include soil, haz waste erials) in approved areas?	e, 🗸				
Are stockpiles protect	ted from run-on, run-off from adjacent area	as 🗸		Ħ		
	d at least 15 m (50 ft) from concentrated	./		Ħ		
	ainage courses and storm drain inlets?  nd/or perimeter controls in place?	V ./		H		

INSPECTION OF BMPs							
ВМР	Yes	No	N/A	Corrective Action/Comments			
Concentrated Flows							
Are concentrated flow paths free of visible erosion?	<b>/</b>						
Tracking Control		-					
Is the entrance stabilized to prevent tracking	1						
Is the stabilized entrance inspected daily to ensure that it is working properly	1	Ī	╁				
Are points of ingress/egress to public/private roads inspected and swept and vacuumed as needed?	<u></u>						
Are all paved areas free of visible sediment tracking or other particulate matter?	<b>✓</b>						
Wind Erosion Control							
Is dust control implemented?		/	1	no dust control as parcel is fully paved			
Vehicle & Equipment Fueling, Cleaning, and Maintenance		<u>.                                     </u>					
Are vehicle and equipment fueling, cleaning and maintenance							
areas reasonably clean and free of spills, leaks, or any other deleterious material?	$\checkmark$						
Are vehicle and equipment fueling, cleaning and maintenance			1				
activities performed on an impermeable surface in dedicated							
areas?	<b>V</b>	-	-				
If no, are drip pans used?							
Are dedicated fueling, cleaning, and maintenance areas located							
at least 15 m (50 ft) away from downstream drainage facilities and watercourses and protected from run-on and runoff?	<b>✓</b>		<u> </u>				
Is wash water contained for infiltration/ evaporation and disposed	1						
of appropriately? Is on-site cleaning limited to washing with water (no soap, soaps		⊨	⊨				
substitutes, solvents, or steam)?	✓						
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?	<b>√</b>			yes, per daily inspection sheets			
Waste Management & Materials Pollution Control							
Are material storage areas and washout areas protected from							
run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	<b>✓</b>						
Are all material handling and storage areas clean; organized; free							
of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	$\checkmark$	L					
Are liquid materials, hazardous materials, and hazardous wastes	/			gas cans and motor oil			
stored in temporary containment facilities?  Are bagged and boxed materials stored on pallets?	./			gae carre arra mieter en			
Are hazardous materials and wastes stored in appropriate,	<b>V</b>	╠					
labeled containers?	<b>✓</b>						
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous	1						
and accessible locations adjacent to storage areas?	V	┞					
Are temporary containment facilities free of spills and rainwater?	<b>✓</b>						
Are temporary containment facilities and bagged/boxed materials covered?	<b>√</b>						
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?	<b>√</b>						
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INSPECTION OF BMPs						
ВМР	Yes	No	N/A	Corrective Action/Comments		
Is the site free of litter?	<b>✓</b>					
Are trash receptacles provided in the yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	<b>√</b>					
ls litter from work areas collected and placed in watertight dumpsters?	<b>✓</b>					
Are waste management receptacles free of leaks?	<b>√</b>					
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	<b>√</b>					
Are waste management receptacles filled at or beyond capacity?		<b>\</b>				
Illicit Connection/ Discharge						
Is there any evidence of illicit discharges or illegal dumping on the project site?		<b>√</b>				
If yes, has the Owner/Operator been notified?						
SWPPP Update						
Do the SWPPP and Project Schedule adequately reflect the current site conditions and contractor operations?	<b>√</b>					
Are all BMPs installed in the proper location(s) and according to the details in the SWPPP?	<b>✓</b>					
General						
Are there any other potential concerns at the site?		<b>√</b>				
Storm Water Monitoring						
Does storm water discharge directly to a water body listed in the General Permit as impaired for sediment/sedimentation or turbidity?			<b>√</b>	No storms were observed		
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan in the SWPPP?						
Did the sampling results indicate that the discharges are causing or contributing to further impairment?			<b>√</b>			
If yes, were the erosion/sediment control BMPs improved or maintained to reduce the discharge of sediment to the water body?						
Were there any BMPs not properly implemented or breaches, malfunctions, leakages or spills observed which could result in						
the discharge of pollutants to surface waters that would not be visually detectable in storm water?			<b>√</b>			
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?						
If sampling indicated pollution of the storm water, were the leaks, breaches, spills, etc. cleaned up and the contaminated soil properly disposed of?			<b>√</b>			
Were the BMPs maintained or replaced?	<b>√</b>					

INSPECTION OF BMPs						
ВМР	Yes	No	N/A	Corrective Action/Comments		
Were soil amendments (e.g., gypsum, lime) used on the project?		<b>√</b>				
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?						
If sampling indicated pollution of the storm water by the use of the soil amendments, is there a contingency plan for retention onsite of the polluted storm water?			<b>√</b>			
Did storm water contact stored materials or waste and run off the construction site? (Materials not in watertight containers, etc.)			<b>√</b>			
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?						

	GENE	RAL INFO	ORMAT	ION	1		
Project Name	Parcel D-1 Remedial Act	tion, Hur	nters P	oint	t Shi	pyard, San Fran	cisco, California
Project No.	Contract No. N624	173-17	-D-0	00	6, 0	CTO-N62473	3-17-F-4550
Construction Stage	Excavation and Earthmovi	ng	Work	Area	a No.		
Inspector's Name	Eddie K. Kalom	nbo	Date			Nov/21/20	18
Signature	All held		Weat	her		Rain	
	Prior to forecast rain					After a rain event	
Inspection Type (Check Applicable)	<b>✓</b> Weekly					Quarterly non-storm	water
	24-hr intervals during e	extended ra	ain			Other	
Season (Check Applicable)	<b>✓</b> Rainy					Non-Rainy	
Storm Data	Storm Start Date & Time:	Nov/21/2	2018 0	1:11	Sto	rm Duration (hrs):	16
(www.wrh.noaa.gov)	Time elapsed since last storm (Circle Applicable Units)	Min. I	Hr. Da	ys		oroximate Rainfall ount (inches)	1.0
	INSP	ECTION	OF BM	Ps			
	ВМР		Yes	No	N/A	Corrective Act	ion/Comments
Preservation of Exis	sting Vegetation						
	provided to preserve vegetation n activity is planned?	in areas	<b>✓</b>				
Erosion Control							
coverage for the affe	nporary erosion control provide 1 cted areas?		<b>√</b>			100% coverage	around swales
erosion control?	egetated areas that may require			<b>√</b>			
Is the area where erd visible erosion?	osion controls are used required	free from	✓				
	Sediment Barriers (Silt Fence, I		s, Sand	bag	Barr	iers, etc.)	
Are temporary linear functional and mainta	sediment barriers properly insta ained?	ılled,	✓			waddles along sw	ale and fence line
Are temporary linear	sediment barriers free of accum	nulated litte	er? 🗸				
Is the built-up sedime	ent less than 1/3 the height of the	e barrier?	$\checkmark$				
Stockpiles							
	emporary stockpiles (include soil terials) in approved areas?	, haz wast	e, <b></b>				
Are stockpiles protect and from winds?	ted from run-on, run-off from ad	jacent are	as 🗸				
	d at least 15 m (50 ft) from conc rainage courses and storm drair		<b>√</b>				
	and/or perimeter controls in plac		1		П		

INSPECTION OF BMPs							
ВМР	Yes	No	N/A	Corrective Action/Comments			
Concentrated Flows							
Are concentrated flow paths free of visible erosion?	<b>/</b>						
Tracking Control		-					
Is the entrance stabilized to prevent tracking	1						
Is the stabilized entrance inspected daily to ensure that it is working properly	1	Ī	╁				
Are points of ingress/egress to public/private roads inspected and swept and vacuumed as needed?	<u></u>						
Are all paved areas free of visible sediment tracking or other particulate matter?	<b>✓</b>						
Wind Erosion Control							
Is dust control implemented?		/	1	no dust control as parcel is fully paved			
Vehicle & Equipment Fueling, Cleaning, and Maintenance		<u>.                                     </u>					
Are vehicle and equipment fueling, cleaning and maintenance							
areas reasonably clean and free of spills, leaks, or any other deleterious material?	$\checkmark$						
Are vehicle and equipment fueling, cleaning and maintenance			1				
activities performed on an impermeable surface in dedicated							
areas?	<b>V</b>	-	-				
If no, are drip pans used?							
Are dedicated fueling, cleaning, and maintenance areas located							
at least 15 m (50 ft) away from downstream drainage facilities and watercourses and protected from run-on and runoff?	<b>✓</b>		<u> </u>				
Is wash water contained for infiltration/ evaporation and disposed	1						
of appropriately? Is on-site cleaning limited to washing with water (no soap, soaps		⊨	⊨				
substitutes, solvents, or steam)?	✓						
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?	<b>√</b>			yes, per daily inspection sheets			
Waste Management & Materials Pollution Control							
Are material storage areas and washout areas protected from							
run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	<b>✓</b>						
Are all material handling and storage areas clean; organized; free							
of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	$\checkmark$	L					
Are liquid materials, hazardous materials, and hazardous wastes	/			gas cans and motor oil			
stored in temporary containment facilities?  Are bagged and boxed materials stored on pallets?	./			gae carre arra mieter en			
Are hazardous materials and wastes stored in appropriate,	<b>V</b>	╠					
labeled containers?	<b>✓</b>						
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous	1						
and accessible locations adjacent to storage areas?	V	┞					
Are temporary containment facilities free of spills and rainwater?	<b>✓</b>						
Are temporary containment facilities and bagged/boxed materials covered?	<b>√</b>						
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?	<b>√</b>						
· · · · · · · · · · · · · · · · · · ·		_		•			

INSPECTION OF BMPs						
ВМР	Yes	No	N/A	Corrective Action/Comments		
Is the site free of litter?	<b>/</b>					
Are trash receptacles provided in the yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	<b>√</b>					
ls litter from work areas collected and placed in watertight dumpsters?	<b>√</b>					
Are waste management receptacles free of leaks?	<b>√</b>					
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	<b>√</b>					
Are waste management receptacles filled at or beyond capacity?		$\checkmark$				
Illicit Connection/ Discharge						
Is there any evidence of illicit discharges or illegal dumping on the project site?		<b>√</b>				
If yes, has the Owner/Operator been notified?						
SWPPP Update	<u> </u>					
Do the SWPPP and Project Schedule adequately reflect the current site conditions and contractor operations?	<b>√</b>					
Are all BMPs installed in the proper location(s) and according to the details in the SWPPP?	<b>✓</b>					
General						
Are there any other potential concerns at the site?		<b>√</b>				
Storm Water Monitoring			_			
Does storm water discharge directly to a water body listed in the General Permit as impaired for sediment/sedimentation or turbidity?	<b>✓</b>			SF bay is impaired with sediment and turbidity		
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan in the SWPPP?		<b>√</b>		No illicit discharge observerd		
Did the sampling results indicate that the discharges are causing or contributing to further impairment?			<b>√</b>			
If yes, were the erosion/sediment control BMPs improved or maintained to reduce the discharge of sediment to the water body?						
Were there any BMPs not properly implemented or breaches, malfunctions, leakages or spills observed which could result in the discharge of pollutants to surface waters that would not be visually detectable in storm water?			<b>√</b>			
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?						
If sampling indicated pollution of the storm water, were the leaks, breaches, spills, etc. cleaned up and the contaminated soil properly disposed of?			✓			
Were the BMPs maintained or replaced?	$\checkmark$					

INSPECTION OF BMPs						
ВМР	Yes	No	N/A	Corrective Action/Comments		
Were soil amendments (e.g., gypsum, lime) used on the project?		<b>√</b>				
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?						
If sampling indicated pollution of the storm water by the use of the soil amendments, is there a contingency plan for retention onsite of the polluted storm water?			<b>√</b>			
Did storm water contact stored materials or waste and run off the construction site? (Materials not in watertight containers, etc.)			<b>√</b>			
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?						

	GENERAL IN	NFORMA	١T	ION	I		
Project Name	Parcel D-1 Remedial Action, H	lunters	Р	oint	Shi	pyard, San Fran	cisco, California
Project No.	Contract No. N62473-1	17-D-0	)(	000	6, C	CTO-N62473	3-17-F-4550
Construction Stage	Excavation and Earthmoving Inactive Construction	Wor	k.	Area	a No.		
Inspector's Name	Eddie K. Kalombo	Date	Э			Nov/30/20	18
Signature	LIL KALL	Wea	ath	ner		Sunny	
	Prior to forecast rain	•				After a rain event	
Inspection Type (Check Applicable)	✓ Weekly					Quarterly non-storm	water
	24-hr intervals during extende	d rain				Other	
Season (Check Applicable)	✓ Rainy					Non-Rainy	
Storm Data	Storm Start Date & Time:				Sto	m Duration (hrs):	
(www.wrh.noaa.gov)	Time elapsed since last storm (Circle Applicable Units) 24 h		)ay	/S		roximate Rainfall ount (inches)	0.31
	NODECTIO			_			
	INSPECTIO	ON OF B	IVI				
	ВМР	Ye	S	No	N/A	Corrective Act	ion/Comments
Preservation of Exis	<u> </u>						
	provided to preserve vegetation in area in activity is planned?	as 🗸					
Erosion Control		•					
Does the applied ten coverage for the affe	nporary erosion control provide 100% cted areas?	<b>✓</b>	/			100% arour	nd swales
Are there any non-vee	egetated areas that may require tempor			<b>√</b>			
Is the area where erd visible erosion?	osion controls are used required free fro	om 🗸	/				
Temporary Linear S	Sediment Barriers (Silt Fence, Fiber R	Rolls, Sar	ndl	bag	Barr	iers, etc.)	
Are temporary linear functional and mainta	sediment barriers properly installed, ained?	<b>✓</b>	/			waddles alon	g swale lines
Are temporary linear	sediment barriers free of accumulated	litter? ✓	7				
Is the built-up sedime	ent less than 1/3 the height of the barrie	er?	7				
Stockpiles							
	emporary stockpiles (include soil, haz w terials) in approved areas?	aste,	1				
	eted from run-on, run-off from adjacent a	areas 🗸	1				
	d at least 15 m (50 ft) from concentrate rainage courses and storm drain inlets?		1				
	and/or perimeter controls in place?	J	7				

INSPECTION OF BMPs							
ВМР	Yes	No	N/A	Corrective Action/Comments			
Concentrated Flows							
Are concentrated flow paths free of visible erosion?	<b>/</b>						
Tracking Control		-					
Is the entrance stabilized to prevent tracking	1						
Is the stabilized entrance inspected daily to ensure that it is working properly	1	Ī	╁				
Are points of ingress/egress to public/private roads inspected and swept and vacuumed as needed?	<u></u>						
Are all paved areas free of visible sediment tracking or other particulate matter?	<b>✓</b>						
Wind Erosion Control							
Is dust control implemented?		/	1	no dust control as parcel is fully paved			
Vehicle & Equipment Fueling, Cleaning, and Maintenance		<u>.                                     </u>					
Are vehicle and equipment fueling, cleaning and maintenance							
areas reasonably clean and free of spills, leaks, or any other deleterious material?	$\checkmark$						
Are vehicle and equipment fueling, cleaning and maintenance			1				
activities performed on an impermeable surface in dedicated							
areas?	<b>V</b>	-	-				
If no, are drip pans used?							
Are dedicated fueling, cleaning, and maintenance areas located							
at least 15 m (50 ft) away from downstream drainage facilities and watercourses and protected from run-on and runoff?	<b>✓</b>		<u> </u>				
Is wash water contained for infiltration/ evaporation and disposed	1						
of appropriately? Is on-site cleaning limited to washing with water (no soap, soaps		⊨	⊨				
substitutes, solvents, or steam)?	✓						
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?	<b>√</b>			yes, per daily inspection sheets			
Waste Management & Materials Pollution Control							
Are material storage areas and washout areas protected from							
run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	<b>✓</b>						
Are all material handling and storage areas clean; organized; free							
of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	$\checkmark$	L					
Are liquid materials, hazardous materials, and hazardous wastes	/			gas cans and motor oil			
stored in temporary containment facilities?  Are bagged and boxed materials stored on pallets?				gae carre arra mieter en			
Are hazardous materials and wastes stored in appropriate,	<b>V</b>	╠					
labeled containers?	<b>✓</b>						
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous	1						
and accessible locations adjacent to storage areas?	V	┞					
Are temporary containment facilities free of spills and rainwater?	<b>✓</b>						
Are temporary containment facilities and bagged/boxed materials covered?	<b>√</b>						
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?	<b>√</b>						
· · · · · · · · · · · · · · · · · · ·		_		•			

INSPECTION OF BMPs								
ВМР	Yes	No	N/A	Corrective Action/Comments				
Is the site free of litter?	<b>/</b>							
Are trash receptacles provided in the yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	<b>√</b>							
ls litter from work areas collected and placed in watertight dumpsters?	<b>✓</b>							
Are waste management receptacles free of leaks?	<b>√</b>							
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	<b>✓</b>							
Are waste management receptacles filled at or beyond capacity?	Ш	$\checkmark$						
Illicit Connection/ Discharge								
Is there any evidence of illicit discharges or illegal dumping on the project site?		<b>√</b>						
If yes, has the Owner/Operator been notified?								
SWPPP Update								
Do the SWPPP and Project Schedule adequately reflect the current site conditions and contractor operations?	<b>√</b>							
Are all BMPs installed in the proper location(s) and according to the details in the SWPPP?	<b>✓</b>							
General								
Are there any other potential concerns at the site?		<b>√</b>						
Storm Water Monitoring	,							
Does storm water discharge directly to a water body listed in the General Permit as impaired for sediment/sedimentation or turbidity?		<b>√</b>		No storms were observed				
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan in the SWPPP?								
Did the sampling results indicate that the discharges are causing or contributing to further impairment?			<b>√</b>					
If yes, were the erosion/sediment control BMPs improved or maintained to reduce the discharge of sediment to the water body?								
Were there any BMPs not properly implemented or breaches, malfunctions, leakages or spills observed which could result in the discharge of pollutants to surface waters that would not be visually detectable in storm water?			<b>√</b>					
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?								
If sampling indicated pollution of the storm water, were the leaks, breaches, spills, etc. cleaned up and the contaminated soil properly disposed of?  Were the BMPs maintained or replaced?			✓					
were the divies maintained of replaced?	$\checkmark$							

INSPECTION OF BMPs									
ВМР	Yes	No	N/A	Corrective Action/Comments					
Were soil amendments (e.g., gypsum, lime) used on the project?		<b>√</b>							
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?									
If sampling indicated pollution of the storm water by the use of the soil amendments, is there a contingency plan for retention onsite of the polluted storm water?			<b>√</b>						
Did storm water contact stored materials or waste and run off the construction site? (Materials not in watertight containers, etc.)			<b>√</b>						
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?									

GENERAL INFORMATION							
Project Name Parcel D-1 Remedial Action, Hunters Point Shipyard, San Francisco, California							
Project No. Contract No. N62473-17-D-0006, CTO-N62473-17-F-4550							
Construction Stage	Excavation and Earthmoving Inactive Construction	Work	Area No.				
Inspector's Name	Eddie K. Kalombo	Date		Dec/07/20	18		
Signature	All hell	Weath	ner	Sunny			
	Prior to forecast rain			After a rain event			
Inspection Type (Check Applicable)	<b>√</b> Weekly			Quarterly non-storm	water		
	24-hr intervals during extended ra	ain		Other			
Season (Check Applicable)	<b>✓</b> Rainy			Non-Rainy			
Storm Data	Storm Start Date & Time:		Stor	rm Duration (hrs):			
(www.wrh.noaa.gov)	Time elapsed since last storm (Circle Applicable Units) 17 hrs	Hr. Day	Α	roximate Rainfall ount (inches)	0.29		
	INSPECTION	OF BM	Ps				
	ВМР	Yes	No N/A	Corrective Act	ion/Comments		
Preservation of Exis							
	provided to preserve vegetation in areas n activity is planned?	<b>✓</b>					
Erosion Control							
coverage for the affe		<b>√</b>		100% coverage	e around swales		
Are there any non-ve erosion control?	egetated areas that may require temporary		$\checkmark$				
	osion controls are used required free from	<b>√</b>					
Temporary Linear S	ediment Barriers (Silt Fence, Fiber Roll	s, Sand	bag Barr	iers, etc.)			
Are temporary linear functional and mainta	sediment barriers properly installed, ained?	$\checkmark$		waddles along sw	ale and fence line		
Are temporary linear	sediment barriers free of accumulated litte	er? 🗸					
Is the built-up sedime	ent less than 1/3 the height of the barrier?	<b>√</b>					
Stockpiles			' '				
	emporary stockpiles (include soil, haz wast	e, <b>/</b>					
	terials) in approved areas? eted from run-on, run-off from adjacent are	as 🗸					
Are stockpiles locate	d at least 15 m (50 ft) from concentrated	7					
	rainage courses and storm drain inlets? and/or perimeter controls in place?	1					

INSPECTION OF BMPs								
ВМР	Yes	No	N/A	Corrective Action/Comments				
Concentrated Flows	•							
Are concentrated flow paths free of visible erosion?	<b>/</b>							
Tracking Control		-						
Is the entrance stabilized to prevent tracking	<b>/</b>							
Is the stabilized entrance inspected daily to ensure that it is working properly	<u></u>	Ī	1					
Are points of ingress/egress to public/private roads inspected an swept and vacuumed as needed?	d 🗸							
Are all paved areas free of visible sediment tracking or other particulate matter?	<b>√</b>							
Wind Erosion Control								
Is dust control implemented?		/		no dust control as parcel is fully paved				
Vehicle & Equipment Fueling, Cleaning, and Maintenance		J						
Are vehicle and equipment fueling, cleaning and maintenance								
areas reasonably clean and free of spills, leaks, or any other deleterious material?	<b>✓</b>	_						
Are vehicle and equipment fueling, cleaning and maintenance								
activities performed on an impermeable surface in dedicated	1							
areas?	•	┞						
If no, are drip pans used?								
Are dedicated fueling, cleaning, and maintenance areas located								
at least 15 m (50 ft) away from downstream drainage facilities and watercourses and protected from run-on and runoff?	<b>✓</b>	L						
Is wash water contained for infiltration/ evaporation and disposed	1							
of appropriately?	Y	┢						
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	<b>\</b>							
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?	<b>/</b>			yes, per daily inspection sheets				
Waste Management & Materials Pollution Control		Н		, , , , , , , , , , , , , , , , , , ,				
Are material storage areas and washout areas protected from			ı					
run-on and runoff, and located at least 15 m from concentrated	<b>/</b>							
flows and downstream drainage facilities?			-					
Are all material handling and storage areas clean; organized; fre- of spills, leaks, or any other deleterious material; and stocked								
with appropriate clean-up supplies?	V							
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?	<b>√</b>			gas cans and motor oil				
Are bagged and boxed materials stored on pallets?	<b>√</b>							
Are hazardous materials and wastes stored in appropriate,	1	Τ						
labeled containers? Are proper storage, clean-up, and spill-reporting procedures for	_							
hazardous materials and wastes posted in open, conspicuous	<b>\</b>							
and accessible locations adjacent to storage areas?								
Are temporary containment facilities free of spills and rainwater?	<b>√</b>							
Are temporary containment facilities and bagged/boxed materials covered?	· 🗸							
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?	<b>√</b>							

INSPECTION OF BMPs								
ВМР	Yes	No	N/A	Corrective Action/Comments				
Is the site free of litter?	<b>/</b>							
Are trash receptacles provided in the yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	<b>√</b>							
ls litter from work areas collected and placed in watertight dumpsters?	<b>✓</b>							
Are waste management receptacles free of leaks?	<b>√</b>							
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	<b>✓</b>							
Are waste management receptacles filled at or beyond capacity?	Ш	$\checkmark$						
Illicit Connection/ Discharge								
Is there any evidence of illicit discharges or illegal dumping on the project site?		<b>√</b>						
If yes, has the Owner/Operator been notified?								
SWPPP Update								
Do the SWPPP and Project Schedule adequately reflect the current site conditions and contractor operations?	<b>√</b>							
Are all BMPs installed in the proper location(s) and according to the details in the SWPPP?	<b>✓</b>							
General								
Are there any other potential concerns at the site?		<b>√</b>						
Storm Water Monitoring	,							
Does storm water discharge directly to a water body listed in the General Permit as impaired for sediment/sedimentation or turbidity?		<b>√</b>		No storms were observed				
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan in the SWPPP?								
Did the sampling results indicate that the discharges are causing or contributing to further impairment?			<b>√</b>					
If yes, were the erosion/sediment control BMPs improved or maintained to reduce the discharge of sediment to the water body?								
Were there any BMPs not properly implemented or breaches, malfunctions, leakages or spills observed which could result in the discharge of pollutants to surface waters that would not be visually detectable in storm water?			<b>√</b>					
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?								
If sampling indicated pollution of the storm water, were the leaks, breaches, spills, etc. cleaned up and the contaminated soil properly disposed of?  Were the BMPs maintained or replaced?			✓					
were the divies maintained of replaced?	$\checkmark$							

INSPECTION OF BMPs									
ВМР	Yes	No	N/A	Corrective Action/Comments					
Were soil amendments (e.g., gypsum, lime) used on the project?		<b>√</b>							
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?									
If sampling indicated pollution of the storm water by the use of the soil amendments, is there a contingency plan for retention onsite of the polluted storm water?			<b>√</b>						
Did storm water contact stored materials or waste and run off the construction site? (Materials not in watertight containers, etc.)			<b>√</b>						
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?									

GENERAL INFORMATION									
Project Name Parcel D-1 Remedial Action, Hunters Point Shipyard, San Francisco, California									
Project No. Contract No. N62473-17-D-0006, CTO-N62473-17-F-4550									
Construction Stage	Excavation and Earthmovir Inactive Construction	ng	Work	Area	No.				
Inspector's Name	Eddie K. Kalom	bo	Date			Dec/14/2018			
Signature	BU HALL		Weath	ner		Sunny with tra	ace precipitation		
	Prior to forecast rain					After a rain event			
Inspection Type (Check Applicable)	✓ Weekly					Quarterly non-storm	water		
	24-hr intervals during ex	ktended ra	ain			Other			
Season (Check Applicable)	Rainy			[		Non-Rainy			
Storm Data	Storm Start Date & Time:	Dec/14/2	2018 10	):12	Stor	rm Duration (hrs):	1		
(www.wrh.noaa.gov)	Time elapsed since last storm (Circle Applicable Units)	Min. H	Hr. Day	ys		roximate Rainfall ount (inches)	0.03		
	INSPE	ECTION	OF BM	Ps					
	ВМР		Yes	No	N/A	Corrective Act	ion/Comments		
Preservation of Exis									
	provided to preserve vegetation n activity is planned?	in areas	<b>✓</b>						
Erosion Control									
coverage for the affe			✓			100% coverage	e around swales		
erosion control?	getated areas that may require to			lacksquare					
Is the area where ero visible erosion?	osion controls are used required t	free from	<b>√</b>						
Temporary Linear S	ediment Barriers (Silt Fence, F	iber Roll	s, Sand	bag I	Barri	iers, etc.)			
Are temporary linear functional and mainta	sediment barriers properly instal ained?	led,	<b>√</b>			waddles along sw	ale and fence line		
Are temporary linear	sediment barriers free of accumu	ulated litte	er? 🗸						
Is the built-up sedime	ent less than 1/3 the height of the	barrier?	<b>√</b>						
Stockpiles			•	1					
	emporary stockpiles (include soil,	haz wast	e, <b>/</b>						
	terials) in approved areas? eted from run-on, run-off from adj	acent area	as 🗸						
Are stockpiles locate	d at least 15 m (50 ft) from conce		1	Ħ	╗				
	rainage courses and storm drain		./	H	_				

INSPECTION OF BMPs								
ВМР	Yes	No	N/A	Corrective Action/Comments				
Concentrated Flows	•							
Are concentrated flow paths free of visible erosion?	<b>/</b>							
Tracking Control		-						
Is the entrance stabilized to prevent tracking	<b>/</b>							
Is the stabilized entrance inspected daily to ensure that it is working properly	<u></u>	Ī	1					
Are points of ingress/egress to public/private roads inspected an swept and vacuumed as needed?	d 🗸							
Are all paved areas free of visible sediment tracking or other particulate matter?	<b>√</b>							
Wind Erosion Control								
Is dust control implemented?		/		no dust control as parcel is fully paved				
Vehicle & Equipment Fueling, Cleaning, and Maintenance		J						
Are vehicle and equipment fueling, cleaning and maintenance								
areas reasonably clean and free of spills, leaks, or any other deleterious material?	<b>✓</b>	_						
Are vehicle and equipment fueling, cleaning and maintenance								
activities performed on an impermeable surface in dedicated	1							
areas?	•	┞						
If no, are drip pans used?								
Are dedicated fueling, cleaning, and maintenance areas located								
at least 15 m (50 ft) away from downstream drainage facilities and watercourses and protected from run-on and runoff?	<b>✓</b>	L						
Is wash water contained for infiltration/ evaporation and disposed	1							
of appropriately?	Y	┢						
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	<b>\</b>							
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?	<b>/</b>			yes, per daily inspection sheets				
Waste Management & Materials Pollution Control		Н		, , , , , , , , , , , , , , , , , , ,				
Are material storage areas and washout areas protected from			ı					
run-on and runoff, and located at least 15 m from concentrated	<b>/</b>							
flows and downstream drainage facilities?			-					
Are all material handling and storage areas clean; organized; fre- of spills, leaks, or any other deleterious material; and stocked								
with appropriate clean-up supplies?	V							
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?	<b>√</b>			gas cans and motor oil				
Are bagged and boxed materials stored on pallets?	<b>√</b>							
Are hazardous materials and wastes stored in appropriate,	1	Τ						
labeled containers? Are proper storage, clean-up, and spill-reporting procedures for	_							
hazardous materials and wastes posted in open, conspicuous	<b>\</b>							
and accessible locations adjacent to storage areas?								
Are temporary containment facilities free of spills and rainwater?	<b>√</b>							
Are temporary containment facilities and bagged/boxed materials covered?	· 🗸							
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?	<b>√</b>							

INSPECTION OF BMPs								
ВМР	Yes	No	N/A	Corrective Action/Comments				
Is the site free of litter?	<b>/</b>							
Are trash receptacles provided in the yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	<b>√</b>							
ls litter from work areas collected and placed in watertight dumpsters?	<b>✓</b>							
Are waste management receptacles free of leaks?	<b>√</b>							
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	<b>√</b>							
Are waste management receptacles filled at or beyond capacity?		<b>/</b>						
Illicit Connection/ Discharge								
Is there any evidence of illicit discharges or illegal dumping on the project site?		<b>√</b>						
If yes, has the Owner/Operator been notified?								
SWPPP Update								
Do the SWPPP and Project Schedule adequately reflect the current site conditions and contractor operations?	<b>√</b>							
Are all BMPs installed in the proper location(s) and according to the details in the SWPPP?	<b>✓</b>							
General								
Are there any other potential concerns at the site?		✓						
Storm Water Monitoring								
Does storm water discharge directly to a water body listed in the General Permit as impaired for sediment/sedimentation or turbidity?	<b>✓</b>			SF bay is impaired for sediment and turbidity				
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan in the SWPPP?		<b>√</b>						
Did the sampling results indicate that the discharges are causing or contributing to further impairment?			<b>√</b>					
If yes, were the erosion/sediment control BMPs improved or maintained to reduce the discharge of sediment to the water body?								
Were there any BMPs not properly implemented or breaches, malfunctions, leakages or spills observed which could result in			1					
the discharge of pollutants to surface waters that would not be visually detectable in storm water?			<b>√</b>					
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?								
If sampling indicated pollution of the storm water, were the leaks, breaches, spills, etc. cleaned up and the contaminated soil properly disposed of?			<b>√</b>					
Were the BMPs maintained or replaced?	<b>√</b>							

INSPECTION OF BMPs									
ВМР	Yes	No	N/A	Corrective Action/Comments					
Were soil amendments (e.g., gypsum, lime) used on the project?		<b>√</b>							
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?									
If sampling indicated pollution of the storm water by the use of the soil amendments, is there a contingency plan for retention onsite of the polluted storm water?			<b>√</b>						
Did storm water contact stored materials or waste and run off the construction site? (Materials not in watertight containers, etc.)			<b>√</b>						
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?									

	GENE	RAL INFO	ORMAT	ΙΟΝ	1		
Project Name	Parcel D-1 Remedial Act	tion, Hur	nters P	oint	t Shi	pyard, San Frar	ncisco, California
Project No.	Contract No. N624	173-17	'-D-0	00	6, 0	CTO-N6247	3-17-F-4550
Construction Stage	Excavation and Earthmovi	ing	Work	Area	a No.		
Inspector's Name	Eddie K. Kalom	nbo	Date			Dec/21/20	18
Signature	By hack		Weat	her		Sunny & early	morning showers
	Prior to forecast rain					After a rain event	
Inspection Type (Check Applicable)	✓ Weekly					Quarterly non-storm	water
	24-hr intervals during e	extended ra	ain			Other	
Season (Check Applicable)	<b>✓</b> Rainy					Non-Rainy	
Storm Data	Storm Start Date & Time:	Dec/21/2	2018 05	5:12	Sto	rm Duration (hrs):	2
(www.wrh.noaa.gov)	Time elapsed since last storm (Circle Applicable Units)	Min. I	Hr. Da	ys		oroximate Rainfall ount (inches)	0.05
	INSP	ECTION	OF BM	Ps			
	ВМР		Yes	No	N/A	Corrective Act	tion/Comments
Preservation of Exi							
	provided to preserve vegetation activity is planned?	in areas	$\checkmark$				
Erosion Control	7 1		l				
Does the applied ten coverage for the affe	nporary erosion control provide octed areas?	100%	<b>√</b>			100% coverage	e around swales
	egetated areas that may require	temporary		<b>/</b>			
	osion controls are used required	free from	<b>√</b>				
Temporary Linear S	Sediment Barriers (Silt Fence,	Fiber Roll	s, Sand	bag	Barr	iers, etc.)	
Are temporary linear functional and mainta	sediment barriers properly insta ained?	illed,	<b>√</b>			waddles alon	g swale lines
Are temporary linear	sediment barriers free of accum	nulated litte	er? 🗸				
Is the built-up sedime	ent less than 1/3 the height of th	e barrier?	1				
Stockpiles							
	emporary stockpiles (include soil	, haz wast	e, <b>/</b>				
	terials) in approved areas? eted from run-on, run-off from ad	jacent are	as /		Ħ		
and from winds?  Are stockniles locate	d at least 15 m (50 ft) from cond	entrated	V		$\models$		
	rainage courses and storm drain		<b>✓</b>		$\square$		
Are required covers	and/or perimeter controls in plac	e?	1				

INSPECTION OF BMPs							
ВМР	Yes	No	N/A	Corrective Action/Comments			
Concentrated Flows							
Are concentrated flow paths free of visible erosion?	<b>/</b>						
Tracking Control		-					
Is the entrance stabilized to prevent tracking	1						
Is the stabilized entrance inspected daily to ensure that it is working properly	1	Ī	╁				
Are points of ingress/egress to public/private roads inspected and swept and vacuumed as needed?	<u></u>						
Are all paved areas free of visible sediment tracking or other particulate matter?	<b>✓</b>						
Wind Erosion Control							
Is dust control implemented?		/	1	no dust control as parcel is fully paved			
Vehicle & Equipment Fueling, Cleaning, and Maintenance		<u>.                                     </u>					
Are vehicle and equipment fueling, cleaning and maintenance							
areas reasonably clean and free of spills, leaks, or any other deleterious material?	$\checkmark$						
Are vehicle and equipment fueling, cleaning and maintenance			1				
activities performed on an impermeable surface in dedicated							
areas?	<b>V</b>	-	-				
If no, are drip pans used?							
Are dedicated fueling, cleaning, and maintenance areas located							
at least 15 m (50 ft) away from downstream drainage facilities and watercourses and protected from run-on and runoff?	<b>✓</b>		<u> </u>				
Is wash water contained for infiltration/ evaporation and disposed	1						
of appropriately? Is on-site cleaning limited to washing with water (no soap, soaps		⊨	⊨				
substitutes, solvents, or steam)?	✓						
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?	<b>√</b>			yes, per daily inspection sheets			
Waste Management & Materials Pollution Control							
Are material storage areas and washout areas protected from							
run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	<b>✓</b>						
Are all material handling and storage areas clean; organized; free							
of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	$\checkmark$	L					
Are liquid materials, hazardous materials, and hazardous wastes	/			gas cans and motor oil			
stored in temporary containment facilities?  Are bagged and boxed materials stored on pallets?	./			gae carre arra mieter en			
Are hazardous materials and wastes stored in appropriate,	<b>V</b>	╠					
labeled containers?	<b>✓</b>						
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous	1						
and accessible locations adjacent to storage areas?	V	┞					
Are temporary containment facilities free of spills and rainwater?	<b>✓</b>						
Are temporary containment facilities and bagged/boxed materials covered?	<b>√</b>						
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?	<b>√</b>						
· · · · · · · · · · · · · · · · · · ·		_		•			

INSPECTION OF BMPs						
ВМР	Yes	No	N/A	Corrective Action/Comments		
Is the site free of litter?	<b>/</b>					
Are trash receptacles provided in the yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	<b>√</b>					
ls litter from work areas collected and placed in watertight dumpsters?	<b>√</b>					
Are waste management receptacles free of leaks?	<b>√</b>					
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	<b>√</b>					
Are waste management receptacles filled at or beyond capacity?		1				
Illicit Connection/ Discharge						
Is there any evidence of illicit discharges or illegal dumping on the project site?		<b>√</b>				
If yes, has the Owner/Operator been notified?						
SWPPP Update						
Do the SWPPP and Project Schedule adequately reflect the current site conditions and contractor operations?	<b>√</b>					
Are all BMPs installed in the proper location(s) and according to the details in the SWPPP?	<b>✓</b>					
General						
Are there any other potential concerns at the site?		<b>√</b>				
Storm Water Monitoring			-			
Does storm water discharge directly to a water body listed in the General Permit as impaired for sediment/sedimentation or turbidity?	<b>✓</b>			SF Bay is impaired for sediment and turbidity		
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan in the SWPPP?		<b>√</b>		No illicit discharge observed		
Did the sampling results indicate that the discharges are causing or contributing to further impairment?			<b>√</b>	no sampling was conducted.		
If yes, were the erosion/sediment control BMPs improved or maintained to reduce the discharge of sediment to the water body?						
Were there any BMPs not properly implemented or breaches, malfunctions, leakages or spills observed which could result in the discharge of pollutants to surface waters that would not be visually detectable in storm water?			<b>✓</b>			
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?						
If sampling indicated pollution of the storm water, were the leaks, breaches, spills, etc. cleaned up and the contaminated soil properly disposed of?			<b>√</b>			
Were the BMPs maintained or replaced?	<b>✓</b>					

INSPECTION OF BMPs							
ВМР	Yes	No	N/A	Corrective Action/Comments			
Were soil amendments (e.g., gypsum, lime) used on the project?		<b>√</b>					
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?							
If sampling indicated pollution of the storm water by the use of the soil amendments, is there a contingency plan for retention onsite of the polluted storm water?			<b>√</b>				
Did storm water contact stored materials or waste and run off the construction site? (Materials not in watertight containers, etc.)			<b>√</b>				
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?							

	GENE	RAL INFO	ORMAT	ΙΟΙ	1			
Project Name	Parcel D-1 Remedial Act	tion, Hur	nters P	oin	t Shi	pyard, San Frar	ncisco, California	
Project No.	ect No. Contract No. N62473-17-D-0006, CTO-N62473-17-F-4550							
Construction Stage	Excavation and Earthmovi	ing	Work	Area	a No.			
Inspector's Name	Eddie K. Kalom	odr	Date			Jan/11/20	19	
Signature	Bu hach		Weat	her		Rain		
	Prior to forecast rain					After a rain event		
Inspection Type (Check Applicable)	<b>✓</b> Weekly					Quarterly non-storm	water	
	24-hr intervals during e	extended ra	ain			Other		
Season (Check Applicable)	<b>✓</b> Rainy					Non-Rainy		
Storm Data	Storm Start Date & Time:	Jan/11/2	2019 06	6:01	Sto	rm Duration (hrs):	8	
(www.wrh.noaa.gov)	Time elapsed since last storm (Circle Applicable Units)		Hr. Da	ys		oroximate Rainfall ount (inches)	0.19	
	INSP	ECTION	OF BM	Ps				
	ВМР		Yes	No	N/A	Corrective Act	tion/Comments	
Preservation of Exi								
	provided to preserve vegetation activity is planned?	in areas	$\checkmark$					
Erosion Control	, ,		'	•				
Does the applied ten coverage for the affe	nporary erosion control provide octed areas?	100%	<b>√</b>			100% coverage	around all swales	
	egetated areas that may require	temporary		<b>√</b>				
	osion controls are used required	free from	<b>√</b>					
Temporary Linear S	Sediment Barriers (Silt Fence,	Fiber Roll	s, Sand	bag	Barr	iers, etc.)		
Are temporary linear functional and mainta	sediment barriers properly insta	ılled,	<b>√</b>			waddles alon	g swale lines	
	sediment barriers free of accum	nulated litte	er? 🗸					
Is the built-up sedime	ent less than 1/3 the height of th	e barrier?	1					
Stockpiles								
	emporary stockpiles (include soil	, haz wast	e, <b>/</b>					
Are stockpiles protect	terials) in approved areas? cted from run-on, run-off from ad	jacent are	as /		Ħ			
and from winds?  Are stockpiles locate	d at least 15 m (50 ft) from cond	entrated	<u> </u>		H			
	rainage courses and storm drain		<b>√</b>		Щ			
Are required covers	and/or perimeter controls in plac	e?						

INSPECTION OF BMPs						
ВМР	Yes	No	N/A	Corrective Action/Comments		
Concentrated Flows						
Are concentrated flow paths free of visible erosion?	<b>/</b>					
Tracking Control		-11				
Is the entrance stabilized to prevent tracking	/					
Is the stabilized entrance inspected daily to ensure that it is working properly	1	Ī	1			
Are points of ingress/egress to public/private roads inspected and swept and vacuumed as needed?	<u>`</u>					
Are all paved areas free of visible sediment tracking or other particulate matter?	<b>√</b>					
Wind Erosion Control						
Is dust control implemented?			<b></b>	all areas are currently paved with a durable cover		
Vehicle & Equipment Fueling, Cleaning, and Maintenance			,			
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other	<b>√</b>					
deleterious material?  Are vehicle and equipment fueling, cleaning and maintenance						
activities performed on an impermeable surface in dedicated areas?	<b>✓</b>					
If no, are drip pans used?						
Are dedicated fueling, cleaning, and maintenance areas located						
at least 15 m (50 ft) away from downstream drainage facilities and watercourses and protected from run-on and runoff?	<b>✓</b>	L				
Is wash water contained for infiltration/ evaporation and disposed of appropriately?	✓					
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	<b>√</b>					
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?	<b>√</b>			yes, per daily inspection sheets		
Waste Management & Materials Pollution Control	•					
Are material storage areas and washout areas protected from						
run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	<b>✓</b>		<u> </u>			
Are all material handling and storage areas clean; organized; free						
of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	<b>V</b>	<u> </u>	$\vdash$			
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?	<b>√</b>			gas cans and motor oil		
Are bagged and boxed materials stored on pallets?	<b>/</b>					
Are hazardous materials and wastes stored in appropriate, labeled containers?	1	Ϊ				
Are proper storage, clean-up, and spill-reporting procedures for						
hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?	<b>✓</b>	L				
Are temporary containment facilities free of spills and rainwater?	<b></b>					
Are temporary containment facilities and bagged/boxed materials covered?	<b>√</b>					
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?	<b>√</b>					

INSPECTION OF BMPs						
ВМР	Yes	No	N/A	Corrective Action/Comments		
Is the site free of litter?	<b>√</b>	Г				
Are trash receptacles provided in the yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	✓					
Is litter from work areas collected and placed in watertight dumpsters?	<b>✓</b>					
Are waste management receptacles free of leaks?	<b>√</b>					
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	<b>✓</b>					
Are waste management receptacles filled at or beyond capacity?		<b>√</b>				
Illicit Connection/ Discharge						
Is there any evidence of illicit discharges or illegal dumping on the project site?		<b>√</b>				
If yes, has the Owner/Operator been notified?						
SWPPP Update		ļ	-			
Do the SWPPP and Project Schedule adequately reflect the current site conditions and contractor operations?	<b>✓</b>					
Are all BMPs installed in the proper location(s) and according to the details in the SWPPP?	<b>✓</b>					
General						
Are there any other potential concerns at the site?		<b>√</b>				
Storm Water Monitoring						
Does storm water discharge directly to a water body listed in the General Permit as impaired for sediment/sedimentation or turbidity?	<b>√</b>			All Bay Area waterbodies are impaired		
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan in the SWPPP?		<b>√</b>		no illicit discharge observed		
Did the sampling results indicate that the discharges are causing or contributing to further impairment?			<b>√</b>			
If yes, were the erosion/sediment control BMPs improved or maintained to reduce the discharge of sediment to the water body?						
Were there any BMPs not properly implemented or breaches, malfunctions, leakages or spills observed which could result in						
the discharge of pollutants to surface waters that would not be visually detectable in storm water?		<b>√</b>				
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?						
If sampling indicated pollution of the storm water, were the leaks, breaches, spills, etc. cleaned up and the contaminated soil properly disposed of?			<b>√</b>			
Were the BMPs maintained or replaced?	<b>√</b>					

INSPECTION OF BMPs							
ВМР	Yes	No	N/A	Corrective Action/Comments			
Were soil amendments (e.g., gypsum, lime) used on the project?		<b>√</b>					
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?							
If sampling indicated pollution of the storm water by the use of the soil amendments, is there a contingency plan for retention onsite of the polluted storm water?			<b>√</b>				
Did storm water contact stored materials or waste and run off the construction site? (Materials not in watertight containers, etc.)			<b>√</b>				
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?							

	GENERAL INF	ORMA	ΓΙΟΙ	N		
Project Name Parcel D-1 Remedial Action, Hunters Point Shipyard, San Francisco, California						
Project No.	Contract No. N62473-1	7-D-0	00	6, 0	CTO-N6247	3-17-F-4550
Construction Stage	Excavation and Earthmoving Inactive Construction	Work	Are	a No.		
Inspector's Name	Eddie K. Kalombo	Date			Jan/18/20	19
Signature	Ell hall	Weat	her		Sunny	
	Prior to forecast rain	•			After a rain event	
Inspection Type (Check Applicable)	✓ Weekly				Quarterly non-storm	water
	24-hr intervals during extended	rain			Other	
Season (Check Applicable)	✓ Rainy				Non-Rainy	
Storm Data	Storm Start Date & Time:			Sto	rm Duration (hrs):	
(www.wrh.noaa.gov)	Time elapsed since last storm (Circle Applicable Units) 24 hrs Min.	Hr. Da	ıys		oroximate Rainfall ount (inches)	0.19
	INSPECTION	OF BN	1Ps			
	ВМР	Yes	No	N/A	Corrective Act	tion/Comments
Preservation of Exis	sting Vegetation					
Is temporary fencing where no constructio	provided to preserve vegetation in areas n activity is planned?					
Erosion Control						
Does the applied ten coverage for the affe	nporary erosion control provide 100% cted areas?	<b>√</b>			100% arour	nd swales
erosion control?	egetated areas that may require temporal		<b>/</b>			
Is the area where erd visible erosion?	osion controls are used required free fron	n 🗸				
Temporary Linear S	ediment Barriers (Silt Fence, Fiber Ro	lls, Sand	dbag	Barr	iers, etc.)	
Are temporary linear functional and mainta	sediment barriers properly installed, ained?	<b>√</b>			waddles alon	g swale lines
Are temporary linear	sediment barriers free of accumulated lit	ter?				
Is the built-up sedime	ent less than 1/3 the height of the barrier	?				
Stockpiles			-	"		
	emporary stockpiles (include soil, haz wa terials) in approved areas?	ste,				
	eted from run-on, run-off from adjacent ar	eas 🗸				
Are stockpiles locate	d at least 15 m (50 ft) from concentrated	<b>J</b>	T	П		
	rainage courses and storm drain inlets? and/or perimeter controls in place?	J	t	${}^{\dagger}$		

INSPECTION OF BMPs						
ВМР	Yes	No	N/A	Corrective Action/Comments		
Concentrated Flows						
Are concentrated flow paths free of visible erosion?	<b>/</b>					
Tracking Control						
Is the entrance stabilized to prevent tracking	1					
Is the stabilized entrance inspected daily to ensure that it is working properly	<b>√</b>					
Are points of ingress/egress to public/private roads inspected and swept and vacuumed as needed?	<b>√</b>					
Are all paved areas free of visible sediment tracking or other particulate matter?	<b>√</b>					
Wind Erosion Control						
Is dust control implemented?	<b>√</b>			water truck and dust monitoring both in place		
Vehicle & Equipment Fueling, Cleaning, and Maintenance						
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other	<b>/</b>					
deleterious material?  Are vehicle and equipment fueling, cleaning and maintenance						
activities performed on an impermeable surface in dedicated areas?	<b>√</b>					
If no, are drip pans used?						
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m (50 ft) away from downstream drainage facilities and watercourses and protected from run-on and runoff?	<b>√</b>					
Is wash water contained for infiltration/ evaporation and disposed of appropriately?	<b>√</b>					
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	<b>√</b>					
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?	<b>√</b>			yes, per daily inspection sheets		
Waste Management & Materials Pollution Control						
Are material storage areas and washout areas protected from						
run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	✓					
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	<b>√</b>					
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?	<b>√</b>			gas cans and motor oil		
Are bagged and boxed materials stored on pallets?	<b>/</b>					
Are hazardous materials and wastes stored in appropriate, labeled containers?	<u>√</u>					
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?	<b>√</b>					
Are temporary containment facilities free of spills and rainwater?	1					
Are temporary containment facilities and bagged/boxed materials covered?	<b>√</b>					
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?	<b>√</b>					

INSPECTION OF BMPs							
ВМР	Yes	No	N/A	Corrective Action/Comments			
Is the site free of litter?	<b>/</b>						
Are trash receptacles provided in the yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	<b>√</b>						
ls litter from work areas collected and placed in watertight dumpsters?	<b>√</b>						
Are waste management receptacles free of leaks?	<b>√</b>						
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	<b>√</b>						
Are waste management receptacles filled at or beyond capacity?		$\checkmark$					
Illicit Connection/ Discharge							
Is there any evidence of illicit discharges or illegal dumping on the project site?		<b>√</b>					
If yes, has the Owner/Operator been notified?							
SWPPP Update							
Do the SWPPP and Project Schedule adequately reflect the current site conditions and contractor operations?	<b>√</b>						
Are all BMPs installed in the proper location(s) and according to the details in the SWPPP?	<b>✓</b>						
General							
Are there any other potential concerns at the site?		<b>√</b>					
Storm Water Monitoring							
Does storm water discharge directly to a water body listed in the General Permit as impaired for sediment/sedimentation or turbidity?		<b>√</b>		No storms were observed			
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan in the SWPPP?							
Did the sampling results indicate that the discharges are causing or contributing to further impairment?			<b>√</b>				
If yes, were the erosion/sediment control BMPs improved or maintained to reduce the discharge of sediment to the water body?							
Were there any BMPs not properly implemented or breaches, malfunctions, leakages or spills observed which could result in the discharge of pollutants to surface waters that would not be visually detectable in storm water?			<b>√</b>				
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?							
If sampling indicated pollution of the storm water, were the leaks, breaches, spills, etc. cleaned up and the contaminated soil properly disposed of?  Were the BMPs maintained or replaced?			✓				
vvere the divies maintained of replaced?	✓						

INSPECTION OF BMPs							
ВМР	Yes	No	N/A	Corrective Action/Comments			
Were soil amendments (e.g., gypsum, lime) used on the project?		<b>√</b>					
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?							
If sampling indicated pollution of the storm water by the use of the soil amendments, is there a contingency plan for retention onsite of the polluted storm water?			<b>√</b>				
Did storm water contact stored materials or waste and run off the construction site? (Materials not in watertight containers, etc.)			<b>√</b>				
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?							

# Appendix E Air Monitoring Report (provided on electronic copy only)

## **AIR MONITORING SUMMARY REPORT**

Remedial Action in Parcel D-1 Hunters Point Naval Shipyard San Francisco, California

Data from August 16, 2018 through November 7, 2018

Contract Number: N62473-17-D-0006 Contract Task Order: N62473-17-F-4550

#### Prepared for:



Base Realignment and Closure Program Management Office West Naval Facilities Engineering Command 33000 Nixie Way, Building 50 San Diego, California 92147

Prepared by:

Aptim Federal Services 4005 Port Chicago Highway, Suite 200 Concord, California 94520-1120

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## Acronyms and Abbreviations \_\_\_\_\_

APTIM Aptim Federal Services LLC
CB&I CB&I Federal Services LLC
CFR Code of Federal Regulations

DCP dust control plan

EPA U.S. Environmental Protection Agency

HPNS Hunters Point Naval Shipyard

L/min liters per minute

NIOSH
OSHA
Occupational Institute for Occupational Safety and Health
OSHA
Occupational Safety and Health Administration
PM10
particulate matter larger than 10 microns in size

TSP total suspended particulates

Work Plan Final Revision 1, Final Remedial Action Work Plan, Remedial

Action in Parcel D-1, Hunters Point Naval Shipyard, San

Francisco, California

### 1.0 Introduction

Aptim Federal Services LLC (APTIM) provided environmental remediation services to the U.S. Navy under the Radiological Environmental Multiple Award Contract, Contract No. N62473-17-D-0006, Contract Task Order N62473-17-F-4550. APTIM performed air monitoring at Hunters Point Naval Shipyard (HPNS) in accordance with the Dust Control Plan (DCP) included as Appendix B to the *Final Revision 1, Final Work Plan, Remedial Action Work Plan, Remedial Action in Parcel D-1, Hunters Point Naval Shipyard, San Francisco, California* (Work Plan; CB&I Federal Services LLC [CB&I], 2016). The DCP describes procedures to minimize dust during work activities, and requires air monitoring to ensure these procedures were effective. The DCP helps prevent exposure of residents and construction crews to potential airborne chemicals of concern, and dust from the work area.

This summary report describes the following:

- Where and how air monitoring samples were collected
- What test methods were used to analyze air monitoring samples
- How air monitoring data were evaluated

This summary report presents the air monitoring test results from August 16 through November 7, 2018 and compares the results with the established action levels included in the Work Plan (CB&I, 2016).

## 2.0 Monitoring Site Locations

Air monitoring stations were mobilized to collect air samples upwind and downwind of work areas for the duration of the project. The predominant wind direction at HPNS is from the west. Locations of air monitoring stations and wind direction are shown on Figure 1. At a minimum, one downwind and one upwind location were used to collect air samples during field activities. Air monitoring was performed to ensure effective dust control. The locations of the air monitoring stations were determined in the Work Plan (CB&I, 2016) based on the prevailing wind direction and were modified as needed. A windsock was used to show wind direction and weather forecasts were checked daily at www.noaa.gov. Monitoring stations remained stationary while sampling was conducted. Each monitoring station included three separate monitoring systems for:

- 1. Total suspended particulates (TSP) and for arsenic, lead and manganese
- 2. Particulate matter larger than 10 microns in size (PM10)
- 3. Asbestos

## 3.0 Analytical Methods

TSP, Arsenic, Lead, and Manganese. TSP samples were collected with a high-volume (39 to 60 cubic feet per minute) air sampler in accordance with U.S. Environmental Protection Agency's (EPA's) reference sampling method for TSP, described in Title 40 Code of Federal Regulations (CFR), Part 50, Appendix B. Each sample was collected on a filter over an approximately 24-hour period; the filter was then weighed to determine the amount of TSP collected. Once the amount of TSP was determined, the sample was analyzed for arsenic, lead and manganese in accordance with one of the IO-3 methods identified in the *Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air* (EPA, 1999). The equipment specifications and sampling procedures used, including the sampling apparatus, filters, equipment accuracy, equipment calibration, and quality assurance checks, all conform to those specified in the analytical method.

**PM10.** Air samples were collected and analyzed for PM10 in accordance with EPA's reference sampling method for PM10, described in 40 CFR Part 50, Appendix J. Each sample was collected on a filter over an approximately 24-hour period; the filter was then weighed to evaluate the concentrations of PM10 in ambient air.

**Asbestos.** Air samples were collected and analyzed for asbestos in accordance with the National Institute for Occupational Safety and Health (NIOSH) Method 7400, in the *NIOSH Manual of Analytical Methods* (NIOSH, 1994). Method 7400 requires that samples be collected on three-piece cellulose ester filters, which are fitted with conductive cowlings, at a sampling rate of between 0.5 liter per minute (L/min) and 16 L/min.

## 4.0 Analysis of Dust and Air Monitoring Data

Analytical results from air monitoring samples were compared with the threshold criteria listed in Table 1.

**Table 1 Air Monitoring Threshold Criteria** 

Test Parameters	Threshold Criteria	Basis
PM10	5,000 μg/m³	Cal/OSHA PEL <sup>a</sup>
TSP	0.5 mg/m <sup>3</sup>	Basewide HPNS Level selected to minimize overall permissible dust release from sites
Arsenic	10 μg/m³	Cal/OSHA PEL
Lead	50 μg/m <sup>3</sup>	Cal/OSHA PEL
Manganese	200 μg/m <sup>3</sup>	Cal/OSHA PEL
Asbestos	0.1 fiber/cm <sup>3</sup>	Cal/OSHA PEL

#### Notes:

μg/m³ – micrograms per cubic meter

Cal/OSHA - California Occupational Safety and Health Administration

fiber/cm<sup>3</sup> – fibers per cubic centimeter

HPNS - Hunters Point Naval Shipyard

mg/m³ – milligrams per cubic meter

PEL – permissible exposure limit

PM10 - particulate matter smaller than 10 microns in diameter

TSP – total suspended particulates

## 5.0 Air Monitoring Results

Weather information (including ambient pressure and temperature data) and air monitoring results are presented in the tables included as Attachment 1. Data were collected from upwind Station 17 and downwind Station 20 (Figure 1). None of the construction activities exceeded the established threshold limit values at any time during project execution.

## 6.0 References

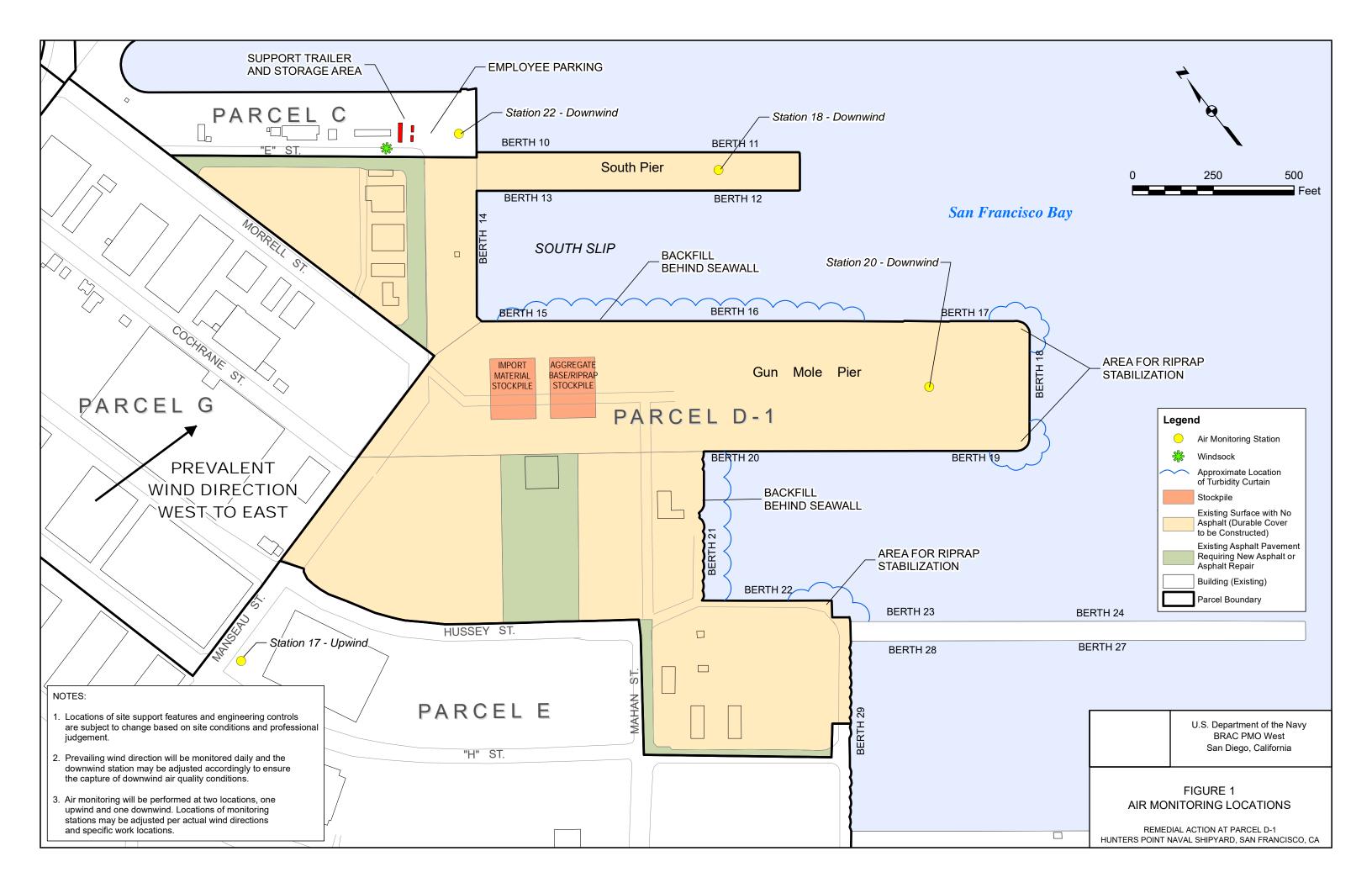
CB&I Federal Services LLC (CB&I), 2016, Final Revision 1, Final Remedial Action Work Plan, Remedial Action in Parcel D-1, Hunters Point Naval Shipyard, California, May.

National Institute for Occupational Safety and Health (NIOSH), 1994, NIOSH Manual of Analytical Methods, Method 7400, August.

U.S. Environmental Protection Agency (EPA), 1999, Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air.

a - Cal/OSHA PEL for particulates not otherwise regulated (respiratory) used for PM10.





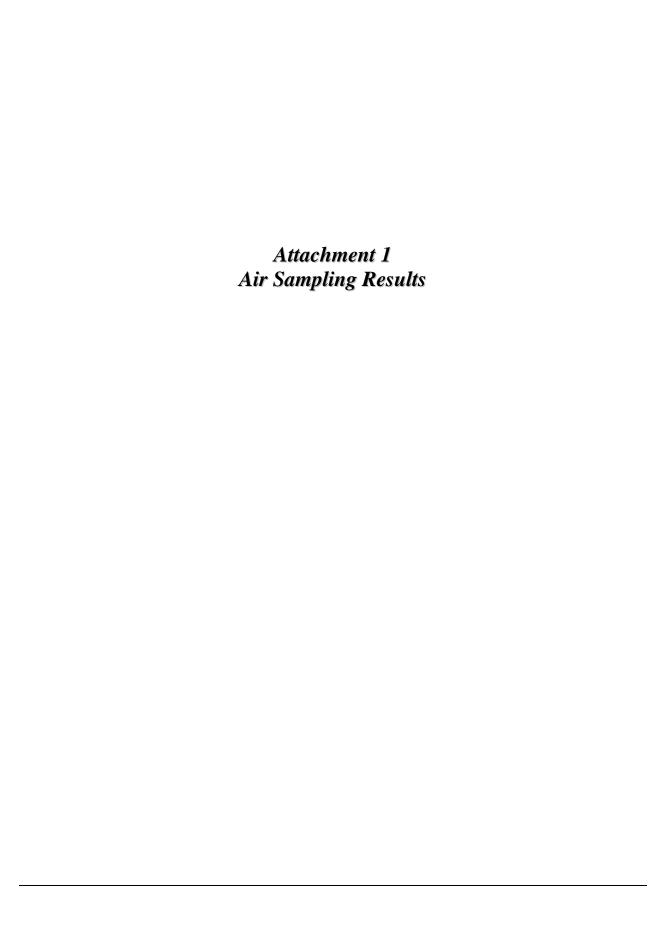


Table 1
Ambient Pressure and Temperature Monitoring Results

0	Ambient Pressure	Ambient Temperature
Sample Date	(in Hg)	(°C)
16-Aug-18	30.06	17.6
17-Aug-18	30.08	17.4
20-Aug-18	29.94	15.8
21-Aug-18	30.01	16.2
22-Aug-18	30.07	18.0
23-Aug-18	30.07	17.6
24-Aug-18	29.99	17.2
27-Aug-18	29.97	18.1
28-Aug-18	29.99	17.8
29-Aug-18	30.01	18.8
30-Aug-18	30.07	18.8
31-Aug-18	30.0	17.22
3-Sep-18	29.9	16.61
4-Sep-18	29.9	17.33
5-Sep-18	30.0	16.39
6-Sep-18	30.1	15.44
7-Sep-18	30.1	17.33
10-Sep-18	29.9	18.39
11-Sep-18	30.0	17.00
12-Sep-18	30.0	16.00
13-Sep-18	30.1	16.78
14-Sep-18	29.95	17.06
17-Sep-18	30.01	15.83
18-Sep-18	29.98	15.89
19-Sep-18	29.91	17.39
20-Sep-18	29.88	21.72
21-Sep-18	29.97	18.33
24-Sep-18	29.89	17.11
25-Sep-18	29.97	15.11
26-Sep-18	30.01	17.72
27-Sep-18	29.97	14.44
28-Sep-18	29.92	15.89
1-Oct-18	29.88	19.50
2-Oct-18	29.86	20.61
3-Oct-18	29.92	20.11
4-Oct-18	30.02	18.17
5-Oct-18	30.08	17.22
8-Oct-18	29.82	21.89
9-Oct-18	29.84	17.17
10-Oct-18	29.84	15.61
11-Oct-18	29.90	17.00
12-Oct-18	29.90	19.56
15-Oct-18	30.12	22.50

Table 1
Ambient Pressure and Temperature Monitoring Results

	Ambient Pressure	Ambient Temperature
Sample Date	(in Hg)	(°C)
16-Oct-18	30.10	17.50
17-Oct-18	30.11	16.06
18-Oct-18	30.15	16.56
19-Oct-18	30.12	18.83
22-Oct-18	29.99	14.83
23-Oct-18	30.06	15.39
24-Oct-18	30.08	16.94
25-Oct-18	30.13	17.83
26-Oct-18	30.11	17.83
29-Oct-18	30.19	17.17
30-Oct-18	30.13	16.67
31-Oct-18	30.15	18.72
1-Nov-18	30.15	20.78
2-Nov-18	30.15	18.56
3-Nov-18	30.12	20.61
4-Nov-18	4-Nov-18 30.04	
5-Nov-18	29.99	16.00
6-Nov-18	30.03	17.72
7-Nov-18	30.07	17.72

#### Notes:

Ambient pressure and ambient temperature data were gathered from the wunderground weather website (www.wunderground.com). Data were collected from station KCASANFR348 at 1200.

<sup>°</sup>C - degrees Celsius

in Hg - inches of mercury

Table 2
TSP and Metals Monitoring Results

Sample Date	Sample Location	Sampling Period (hours)	TSP (mg/m³)	TSP Exceedance? (Yes/No)	Arsenic (μg/m³)	Arsenic Exceedance? (Yes/No)	Lead (µg/m³)	Lead Exceedance? (Yes/No)	Manganese (μg/m³)	Manganese Exceedance? (Yes/No)
16-Aug-18	Upwind - 17	20.5	0.0016	No	ND	No	0.00063 J	No	0.0012	No
16-Aug-18	Downwind - 20	20.7	0.0254	No	ND	No	0.0027	No	0.0110	No
17-Aug-18	Upwind - 17	6.5	0.0411	No	ND	No	0.0059	No	0.0120	No
17-Aug-18	Downwind - 20	6.3	0.0681	No	ND	No	0.0049	No	0.0330	No
20-Aug-18	Upwind - 17	24.1	0.0008	No	ND	No	0.00038 J	No	0.00069 J	No
20-Aug-18	Downwind - 20	24.1	0.0100	No	ND	No	0.0013	No	0.0053	No
21-Aug-18	Upwind - 17	24.0	0.0005	No	ND	No	0.00058 J	No	0.0010	No
21-Aug-18	Downwind - 20	24.0	0.0057	No	ND	No	0.00089 J	No	0.0035	No
22-Aug-18	Upwind - 17	23.9	0.0035	No	ND	No	0.00082 J	No	0.0037	No
22-Aug-18	Downwind - 20	24.0	0.0542	No	ND	No	0.0031	No	0.0100	No
23-Aug-18	Upwind - 17	24.0	0.0135	No	ND	No	0.0013	No	0.0041	No
23-Aug-18	Downwind - 20	24.0	0.0026	No	ND	No	0.00045 J	No	0.0019	No
24-Aug-18	Upwind - 17	6.5	0.0739	No	ND	No	0.0062	No	0.0300	No
24-Aug-18	Downwind - 20	6.3	0.0088	No	ND	No	0.0019 J	No	0.0075	No
27-Aug-18	Upwind - 17	24.0	0.0166	No	ND	No	0.0019	No	0.0055	No
27-Aug-18	Downwind - 20	24.0	0.0025	No	ND	No	0.00068 J	No	0.0020	No
28-Aug-18	Upwind - 17	24.0	0.0275	No	ND	No	0.0024	No	0.0093	No
28-Aug-18	Downwind - 20	24.1	0.0018	No	ND	No	0.00053 J	No	0.0017	No
29-Aug-18	Upwind - 17	24.0	0.0237	No	ND	No	0.0044	No	0.0100	No
29-Aug-18	Downwind - 20	23.9	0.0013	No	ND	No	0.00067 J	No	0.0024	No
30-Aug-18	Upwind - 17	24.0	0.0073	No	ND	No	0.0011	No	0.0029	No
30-Aug-18	Downwind - 20	24.0	0.0011	No	ND	No	0.0004 J	No	0.0011	No
31-Aug-18	Upwind - 17	6.4	0.0094	No	ND	No	0.0021 J	No	0.0041	No
31-Aug-18	Downwind - 20	6.4	0.0345	No	ND	No	0.0040	No	0.0150	No
4-Sep-18	Upwind - 17	24.0	0.0034	No	ND	No	0.00035 J	No	0.00078 J	No
4-Sep-18	Downwind - 20	24.0	0.0035	No	ND	No	0.00061 J	No	0.0044	No
5-Sep-18	Upwind - 17	24.1	ND	No	ND	No	0.00036 J	No	0.0010	No
5-Sep-18	Downwind - 20	24.1	0.0045	No	ND	No	0.00078 J	No	0.0037	No
6-Sep-18	Upwind - 17	23.9	0.0045	No	ND	No	0.0018	No	0.0035	No
6-Sep-18	Downwind - 20	23.9	ND	No	ND	No	0.0005 J	No	0.0017	No
7-Sep-18	Upwind - 17	6.6	0.1076	No	ND	No	0.0110	No	0.0270	No
7-Sep-18	Downwind - 20	6.7	0.0096	No	ND	No	0.0022 J	No	0.0110	No
10-Sep-18	Upwind - 17	24.1	0.0325	No	ND	No	0.0037	No	0.0087	No
10-Sep-18	Downwind - 20	24.1	0.0041	No	ND	No	0.00075 J	No	0.0044	No
11-Sep-18	Upwind - 17	23.8	0.0357	No	ND	No	0.0075	No	0.0140	No
11-Sep-18	Downwind - 20	23.7	0.0026	No	ND	No	0.0012	No	0.0041	No
12-Sep-18	Upwind - 17	24.1	0.0234	No	ND	No	0.0057	No	0.0095	No
12-Sep-18	Downwind - 20	24.1	0.0008	No	ND	No	0.0012	No	0.0040	No
13-Sep-18	Upwind - 17	24.0	ND	No	ND	No	0.00091 J	No	0.0026	No
13-Sep-18	Downwind - 20	24.0	ND	No	ND	No	0.00042 J	No	0.0010	No
14-Sep-18	Upwind - 17	6.5	ND	No	ND	No	0.0015 J	No	0.0031 J	No
14-Sep-18	Downwind - 20	6.5	0.0023	No	ND	No	0.0290	No	0.0180	No
17-Sep-18	Upwind - 17	24.1	0.0255	No	ND	No	0.0051	No	0.0092	No
17-Sep-18	Downwind - 20	24.0	0.0040	No	ND	No	0.0012	No	0.0043	No
18-Sep-18	Upwind - 17	23.9	0.0214	No	ND	No	0.0012	No	0.0075	No

Table 2
TSP and Metals Monitoring Results

Sample Date	Sample Location	Sampling Period (hours)	TSP (mg/m³)	TSP Exceedance? (Yes/No)	Arsenic (µg/m³)	Arsenic Exceedance? (Yes/No)	Lead (µg/m³)	Lead Exceedance? (Yes/No)	Manganese (μg/m³)	Manganese Exceedance? (Yes/No)
18-Sep-18	Downwind - 20	24.0	0.0031	No	ND	No	0.00077 J	No	0.0030	No
19-Sep-18	Upwind - 17	24.1	0.0343	No	ND	No	0.0051	No	0.0130	No
19-Sep-18	Downwind - 20	23.9	0.0051	No	ND	No	0.0012	No	0.0050	No
20-Sep-18	Upwind - 17	23.9	0.0281	No	0.0004 J	No	0.0054	No	0.0230	No
20-Sep-18	Downwind - 20	24.0	ND	No	ND	No	0.00083 J	No	0.0050	No
21-Sep-18	Upwind - 17	7.0	0.0669	No	ND	No	0.0150	No	0.0330	No
21-Sep-18	Downwind - 20	7.0	0.0068	No	ND	No	0.0025 J	No	0.0076	No
24-Sep-18	Upwind - 17	0.0	Note 1	N/A	Note 1	N/A	Note 1	N/A	Note 1	N/A
24-Sep-18	Downwind - 20	0.0	Note 1	N/A	Note 1	N/A	Note 1	N/A	Note 1	N/A
25-Sep-18	Upwind - 17	0.0	Note 1	N/A	Note 1	N/A	Note 1	N/A	Note 1	N/A
25-Sep-18	Downwind - 20	0.0	Note 1	N/A	Note 1	N/A	Note 1	N/A	Note 1	N/A
26-Sep-18	Upwind - 17	0.0	Note 1	N/A	Note 1	N/A	Note 1	N/A	Note 1	N/A
26-Sep-18	Downwind - 20	0.0	Note 1	N/A	Note 1	N/A	Note 1	N/A	Note 1	N/A
27-Sep-18	Upwind - 17	24.0	0.0185	No	ND	No	0.0030	No	0.0110	No
27-Sep-18	Downwind - 20	24.0	0.0065	No	ND	No	0.0011	No	0.0056	No
28-Sep-18	Upwind - 17	6.9	0.0169	No	ND	No	0.0064	No	0.0140	No
28-Sep-18	Downwind - 20	6.8	ND	No	ND	No	0.001 J	No	0.0053	No
1-Oct-18	Upwind - 17	24.1	0.0216	No	ND	No	0.0073	No	0.0100	No
1-Oct-18	Downwind - 20	24.1	0.0032	No	ND	No	0.0014	No	0.0022	No
2-Oct-18	Upwind - 17	0.0	Note 2	N/A	Note 2	N/A	Note 2	N/A	Note 2	N/A
2-Oct-18	Downwind - 20	0.0	Note 2	N/A	Note 2	N/A	Note 2	N/A	Note 2	N/A
3-Oct-18	Upwind - 17	24.1	ND	No	ND	No	0.00069 J	No	0.0019	No
3-Oct-18	Downwind - 20	24.1	0.0158	No	ND	No	0.0067	No	0.0088	No
4-Oct-18	Upwind - 17	24.0	0.0226	No	ND	No	0.0030	No	0.0083	No
4-Oct-18	Downwind - 20	23.9	0.0031	No	ND	No	0.00041 J	No	0.0023	No
5-Oct-18	Upwind - 17	6.7	0.0253	No	ND	No	0.0038	No	0.0130	No
5-Oct-18	Downwind - 20	6.8	ND	No	ND	No	0.0012 J	No	0.0037	No
8-Oct-18	Upwind - 17	24.1	0.0342	No	ND	No	0.0081	No	0.0150	No
8-Oct-18	Downwind - 20	24.0	0.0021	No	ND	No	0.0012	No	0.0027	No
9-Oct-18	Upwind - 17	24.0	0.0401	No	ND	No	0.0067	No	0.0170	No
9-Oct-18	Downwind - 20	23.9	0.0116	No	ND	No	0.0015	No	0.0092	No
10-Oct-18	Upwind - 17	24.0	0.0284	No	ND	No	0.0046	No	0.0100	No
10-Oct-18	Downwind - 20	24.0	0.0044	No	ND	No	0.0017	No	0.0031	No
11-Oct-18	Upwind - 17	24.0	0.0292	No	ND	No	0.0036	No	0.0120	No
11-Oct-18	Downwind - 20	24.0	0.0028	No	ND	No	0.00059 J	No	0.0024	No
12-Oct-18	Upwind - 17	6.9	0.0231	No	ND	No	0.0044	No	0.0180	No
12-Oct-18	Downwind - 20	7.0	ND	No	ND	No	0.0013 J	No	0.0046	No
15-Oct-18	Upwind - 17	24.0	0.0552	No	ND	No	0.0044	No	0.0320	No
15-Oct-18	Downwind - 20	24.0	0.0054	No	ND	No	0.0006 J	No	0.0032	No
16-Oct-18	Upwind - 17	24.0	0.0028	No	ND	No	0.00041 J	No	0.0009	No
16-Oct-18	Downwind - 20	24.0	0.0058	No	ND	No	0.00059 J	No	0.0026	No
17-Oct-18	Upwind - 17	24.1	0.0283	No	ND	No	0.0025	No	0.0100	No
17-Oct-18	Downwind - 20	24.1	0.0040	No	ND	No	0.00053 J	No	0.0021	No
18-Oct-18	Upwind - 17	24.0	ND	No	ND	No	0.00034 J	No	0.00052 J	No
18-Oct-18	Downwind - 20	23.9	0.0044	No	ND	No	0.00051 J	No	0.0026	No

Table 2
TSP and Metals Monitoring Results

Sample Date	Sample Location	Sampling Period (hours)	TSP (mg/m³)	TSP Exceedance? (Yes/No)	Arsenic (μg/m³)	Arsenic Exceedance? (Yes/No)	Lead (µg/m³)	Lead Exceedance? (Yes/No)	Manganese (μg/m³)	Manganese Exceedance? (Yes/No)
19-Oct-18	Upwind - 17	6.8	0.0275	No	ND	No	0.0033	No	0.0120	No
19-Oct-18	Downwind - 20	7.0	ND	No	ND	No	0.001 J	No	0.0029 J	No
22-Oct-18	Upwind - 17	24.0	0.0211	No	ND	No	0.0028	No	0.0082	No
22-Oct-18	Downwind - 20	24.0	0.0028	No	ND	No	0.0005 J	No	0.0027	No
23-Oct-18	Upwind - 17	24.1	0.0189	No	ND	No	0.0053	No	0.0072	No
23-Oct-18	Downwind - 20	24.1	0.0029	No	ND	No	0.00074 J	No	0.0023	No
24-Oct-18	Upwind - 17	24.0	0.0263	No	ND	No	0.0038	No	0.0110	No
24-Oct-18	Downwind - 20	24.0	0.0069	No	ND	No	0.00069 J	No	0.0046	No
25-Oct-18	Upwind - 17	23.9	0.0208	No	ND	No	0.0021	No	0.0083	No
25-Oct-18	Downwind - 20	24.0	0.0041	No	ND	No	0.00045 J	No	0.0021	No
26-Oct-18	Upwind - 17	7.0	0.0273	No	ND	No	0.0038	No	0.0210	No
26-Oct-18	Downwind - 20	7.1	ND	No	ND	No	0.0014 J	No	0.0028 J	No
29-Oct-18	Upwind - 17	24.0	0.0044	No	ND	No	0.00081 J	No	0.0020	No
29-Oct-18	Downwind - 20	24.0	0.0087	No	ND	No	0.0021	No	0.0086	No
30-Oct-18	Upwind - 17	24.1	ND	No	ND	No	0.00034 J	No	0.0015	No
30-Oct-18	Downwind - 20	24.1	0.0089	No	ND	No	0.0042	No	0.0180	No
31-Oct-18	Upwind - 17	24.0	ND	No	ND	No	0.001 J	No	0.0027 J	No
31-Oct-18	Downwind - 20	24.1	0.0371	No	ND	No	0.0053	No	0.0210	No
1-Nov-18	Upwind - 17	24.0	ND	No	ND	No	0.00065 J	No	0.0037	No
1-Nov-18	Downwind - 20	23.9	0.0263	No	ND	No	0.0060	No	0.0180	No
2-Nov-18	Upwind - 17	7.1	ND	No	ND	No	0.0011	No	0.0025	No
2-Nov-18	Downwind - 20	7.0	0.0309	No	ND	No	0.0082	No	0.0170	No
5-Nov-18	Upwind - 17	24.0	0.0027	No	ND	No	0.00046 J	No	0.0034	No
5-Nov-18	Downwind - 20	24.0	0.0276	No	ND	No	0.0027	No	0.0076	No
6-Nov-18	Upwind - 17	24.1	0.0046	No	ND	No	0.00066 J	No	0.0020	No
6-Nov-18	Downwind - 20	24.0	0.0318	No	ND	No	0.0046	No	0.0110	No
7-Nov-18	Upwind - 17	24.0	0.0069	No	ND	No	0.0010	No	0.0032	No
7-Nov-18	Downwind - 20	24.1	0.0217	No	ND	No	0.0031	No	0.0120	No

#### Notes

Sample locations are shown on Figure 1.

The threshold criteria are as follows: TSP =  $0.5 \text{ mg/m}^3$ , arsenic =  $10 \mu\text{g/m}^3$ , lead =  $50 \mu\text{g/m}^3$ , manganese =  $200 \mu\text{g/m}^3$ .

The detection limit for TSP is 0.06 µg/m³ assuming a minimum sample volume of 1,600 m³. The detection limits for arsenic, lead and manganese are 16 ng/m³ assuming minimum sample volumes of 1,600 m³.

mg/m<sup>3</sup> - milligrams per cubic meter

μg/m<sup>3</sup> - micrograms per cubic meter

ng/m3 - nanograms per cubic meter

N/A - not applicable

ND - not detected

TSP - total suspended particulates

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Note 1 - Sample not collected due to no earth moving activities on site.

Note 2 - Sample not collected due to inclement conditions: Rain.

<sup>&</sup>lt;sup>1</sup> - Sample results are not available due to temporary equipment malfunction.

Table 3 PM10 Monitoring Results

		Sampling Period	PM10	PM10 Exceedance?
Sample Date	Sample Location	(hours)	(µ <b>g/m³</b> )	(Yes/No)
16-Aug-18	Upwind - 17	20.5	21	No
16-Aug-18	Downwind - 20	20.7	29	No
17-Aug-18	Upwind - 17	6.5	54	No
17-Aug-18	Downwind - 20	6.3	63	No
20-Aug-18	Upwind - 17	24.1	14	No
20-Aug-18	Downwind - 20	24.1	16	No
21-Aug-18	Upwind - 17	24.0	16	No
21-Aug-18	Downwind - 20	24.0	18	No
22-Aug-18	Upwind - 17	23.9	35	No
22-Aug-18	Downwind - 20	24.0	25	No
23-Aug-18	Upwind - 17	24.0	4.7	No
23-Aug-18	Downwind - 20	24.0	7	No
24-Aug-18	Upwind - 17	6.5	25	No
24-Aug-18	Downwind - 20	6.3	33	No
27-Aug-18	Upwind - 17	24.0	6.2	No
27-Aug-18	Downwind - 20	24.0	8.1	No
28-Aug-18	Upwind - 17	24.0	13	No
28-Aug-18	Downwind - 20	24.1	11	No
29-Aug-18	Upwind - 17	24.0	4.7	No
29-Aug-18	Downwind - 20	23.9	5.1	No
30-Aug-18	Upwind - 17	24.0	2.2	No
30-Aug-18	Downwind - 20	24.0	2.2	No
31-Aug-18	Upwind - 17	6.4	81	No
31-Aug-18	Downwind - 20	6.4	80	No
4-Sep-18	Upwind - 17	24.0	11	No
4-Sep-18	Downwind - 20	24.0	5	No
5-Sep-18	Upwind - 17	24.1	3.9	No
5-Sep-18	Downwind - 20	24.1	6.2	No
6-Sep-18	Upwind - 17	23.9	0.77	No
6-Sep-18	Downwind - 20	23.9	ND	No
7-Sep-18	Upwind - 17	6.6	ND	No
7-Sep-18	Downwind - 20	6.7	40	No
10-Sep-18	Upwind - 17	24.1	ND	No
10-Sep-18	Downwind - 20	24.1	4	No
11-Sep-18	Upwind - 17	23.8	ND	No
11-Sep-18	Downwind - 20	23.7	6	No
12-Sep-18	Upwind - 17	24.1	ND	No
12-Sep-18	Downwind - 20	24.1	3.2	No
13-Sep-18	Upwind - 17	24.0	ND	No
13-Sep-18	Downwind - 20	24.0	ND	No
14-Sep-18	Upwind - 17	6.5	ND	No
14-Sep-18	Downwind - 20	6.5	ND	No
17-Sep-18	Upwind - 17	24.1	ND	No

Table 3 PM10 Monitoring Results

		Sampling Period	PM10	PM10 Exceedance?
Sample Date	Sample Location	(hours)	(µ <b>g/m³</b> )	(Yes/No)
17-Sep-18	Downwind - 20	24.0	13	No
18-Sep-18	Upwind - 17	23.9	0.54	No
18-Sep-18	Downwind - 20	24.0	22	No
19-Sep-18	Upwind - 17	24.1	ND	No
19-Sep-18	Downwind - 20	23.9	0.38	No
20-Sep-18	Upwind - 17	23.9	ND	No
20-Sep-18	Downwind - 20	24.0	32.0	No
21-Sep-18	Upwind - 17	7.0	ND	No
21-Sep-18	Downwind - 20	7.0	35.00	No
24-Sep-18	Upwind - 17	0.0	Note 1	N/A
24-Sep-18	Downwind - 20	0.0	Note 1	N/A
25-Sep-18	Upwind - 17	0.0	Note 1	N/A
25-Sep-18	Downwind - 20	0.0	Note 1	N/A
26-Sep-18	Upwind - 17	0.0	Note 1	N/A
26-Sep-18	Downwind - 20	0.0	Note 1	N/A
27-Sep-18	Upwind - 17	24.0	0.9	No
27-Sep-18	Downwind - 20	24.0	15.0	No
28-Sep-18	Upwind - 17	6.9	ND	No
28-Sep-18	Downwind - 20	6.8	8.6	No
1-Oct-18	Upwind - 17	24.1	ND	No
1-Oct-18	Downwind - 20	24.1	26	No
2-Oct-18	Upwind - 17	0.0	Note 2	N/A
2-Oct-18	Downwind - 20	0.0	Note 2	N/A
3-Oct-18	Upwind - 17	24.1	9.3	No
3-Oct-18	Downwind - 20	24.1	ND	No
4-Oct-18	Upwind - 17	24.0	ND	No
4-Oct-18	Downwind - 20	23.9	7.7	No
5-Oct-18	Upwind - 17	6.7	ND	No
5-Oct-18	Downwind - 20	6.8	10	No
8-Oct-18	Upwind - 17	24.1	ND	No
8-Oct-18	Downwind - 20	24.0	16	No
9-Oct-18	Upwind - 17	24.0	ND	No
9-Oct-18	Downwind - 20	23.9	22	No
10-Oct-18	Upwind - 17	24.0	0.84	No
10-Oct-18	Downwind - 20	24.0	23	No
11-Oct-18	Upwind - 17	24.0	ND	No
11-Oct-18	Downwind - 20	24.0	21	No
12-Oct-18	Upwind - 17	6.9	ND	No
12-Oct-18	Downwind - 20	7.0	45	No
15-Oct-18	Upwind - 17	24.0	ND	No
15-Oct-18	Downwind - 20	24.0	21	No
16-Oct-18	Upwind - 17	24.0	ND	No
16-Oct-18	Downwind - 20	24.0	12.0	No
10-061-10	DOWNWIN - ZU	Z4.U	12.0	INU

Table 3 PM10 Monitoring Results

Sample Date	Sample Location	Sampling Period (hours)	PM10 (μg/m³)	PM10 Exceedance? (Yes/No)
17-Oct-18	Upwind - 17	24.1	0.5	No
17-Oct-18	Downwind - 20	24.1	17.00	No
18-Oct-18	Upwind - 17	24.0	ND	No
18-Oct-18	Downwind - 20	23.9	18.0	No
19-Oct-18	Upwind - 17	6.8	ND	No
19-Oct-18	Downwind - 20	7.0	30.0	No
22-Oct-18	Upwind - 17	24.0	ND	No
22-Oct-18	Downwind - 20	24.0	10.0	No
23-Oct-18	Upwind - 17	24.1	ND	No
23-Oct-18	Downwind - 20	24.1	8.2	No
24-Oct-18	Upwind - 17	24.0	13.0	No
24-Oct-18	Downwind - 20	24.0	ND	No
25-Oct-18	Upwind - 17	23.9	16	No
25-Oct-18	Downwind - 20	24.0	ND	No
26-Oct-18	Upwind - 17	7.0	26	No
26-Oct-18	Downwind - 20	7.1	ND	No
29-Oct-18	Upwind - 17	24.0	17	No
29-Oct-18	Downwind - 20	24.0	ND	No
30-Oct-18	Upwind - 17	24.1	7.8	No
30-Oct-18	Downwind - 20	24.1	ND	No
31-Oct-18	Upwind - 17	24.0	10	No
31-Oct-18	Downwind - 20	24.1	ND	No
1-Nov-18	Upwind - 17	24.0	25	No
1-Nov-18	Downwind - 20	23.9	ND	No
2-Nov-18	Upwind - 17	7.1	27	No
2-Nov-18	Downwind - 20	7.0	ND	No
5-Nov-18	Upwind - 17	24.0	21	No
5-Nov-18	Downwind - 20	24.0	0.46	No

## Table 3 PM10 Monitoring Results

Sample Date	Sample Location	Sampling Period (hours)	PM10 (μg/m³)	PM10 Exceedance? (Yes/No)
6-Nov-18	Upwind - 17	24.1	19	No
6-Nov-18	Downwind - 20	24.0	ND	No
7-Nov-18	Upwind - 17	24.0	27	No
7-Nov-18	Downwind - 20	24.1	ND	No

#### Notes:

Sample locations are shown on Figure 1.

The threshold value for PM10 is 5,000  $\mu$ g/m<sup>3</sup>.

The detection limit for PM10 is 0.06 µg/m<sup>3</sup> assuming a minimum sample volume of 1,600 m<sup>3</sup>.

μg/m<sup>3</sup> - micrograms per cubic meter

N/A - not applicable

ND - not detected

PM10 - particulate matter smaller than 10 microns in diameter

Note 1 - Sample not collected due to no earth moving activities on site

Note 2 - Sample not collected due to inclement conditions: Rain.

<sup>&</sup>lt;sup>1</sup> - Sample results are not available due to temporary equipment malfunction.

Table 4
Asbestos Monitoring Results

Sample Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm³)	Asbestos Exceedance? (Yes/No)
16-Aug-18	Upwind - 17	20.5	< 0.001	No
16-Aug-18	Downwind - 20	20.7	< 0.001	No
17-Aug-18	Upwind - 17	6.5	< 0.003	No
17-Aug-18	Downwind - 20	6.3	< 0.004	No
20-Aug-18	Upwind - 17	24.1	< 0.001	No
20-Aug-18	Downwind - 20	24.1	< 0.001	No
21-Aug-18	Upwind - 17	24.0	< 0.001	No
21-Aug-18	Downwind - 20	24.0	< 0.001	No
22-Aug-18	Upwind - 17	23.9	< 0.001	No
22-Aug-18	Downwind - 20	24.0	< 0.001	No
23-Aug-18	Upwind - 17	24.0	< 0.001	No
23-Aug-18	Downwind - 20	24.0	< 0.001	No
24-Aug-18	Upwind - 17	6.5	< 0.003	No
24-Aug-18	Downwind - 20	6.3	< 0.004	No
27-Aug-18	Upwind - 17	24.0	< 0.001	No
27-Aug-18	Downwind - 20	24.0	< 0.001	No
28-Aug-18	Upwind - 17	24.0	< 0.001	No
28-Aug-18	Downwind - 20	24.1	< 0.001	No
29-Aug-18	Upwind - 17	24.0	< 0.001	No
29-Aug-18	Downwind - 20	23.9	< 0.001	No
30-Aug-18	Upwind - 17	24.0	< 0.001	No
30-Aug-18	Downwind - 20	24.0	< 0.001	No
31-Aug-18	Upwind - 17	6.4	< 0.003	No
31-Aug-18	Downwind - 20	6.4	< 0.004	No
4-Sep-18	Upwind - 17	24.0	< 0.001	No
4-Sep-18	Downwind - 20	24.0	< 0.001	No
5-Sep-18	Upwind - 17	24.1	< 0.001	No
5-Sep-18	Downwind - 20	24.1	< 0.001	No
6-Sep-18	Upwind - 17	23.9	< 0.001	No
6-Sep-18	Downwind - 20	23.9	< 0.001	No
7-Sep-18	Upwind - 17	6.6	< 0.003	No
7-Sep-18	Downwind - 20	6.7	< 0.003	No
10-Sep-18	Upwind - 17	24.1	< 0.001	No
10-Sep-18	Downwind - 20	24.1	< 0.001	No
11-Sep-18	Upwind - 17	23.8	< 0.001	No
11-Sep-18	Downwind - 20	23.7	< 0.001	No
12-Sep-18	Upwind - 17	24.1	< 0.001	No
12-Sep-18	Downwind - 20	24.1	< 0.001	No
13-Sep-18	Upwind - 17	24.0	< 0.001	No
13-Sep-18	Downwind - 20	24.0	< 0.001	No
14-Sep-18	Upwind - 17	6.5	< 0.003	No
14-Sep-18	Downwind - 20	6.5	< 0.003	No

Table 4
Asbestos Monitoring Results

Sample Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm³)	Asbestos Exceedance? (Yes/No)
17-Sep-18	Upwind - 17	24.1	< 0.001	No
17-Sep-18	Downwind - 20	24.0	< 0.001	No
18-Sep-18	Upwind - 17	23.9	< 0.001	No
18-Sep-18	Downwind - 20	24.0	< 0.001	No
19-Sep-18	Upwind - 17	24.1	< 0.001	No
19-Sep-18	Downwind - 20	23.9	< 0.001	No
20-Sep-18	Upwind - 17	23.9	< 0.001	No
20-Sep-18	Downwind - 20	24.0	< 0.001	No
21-Sep-18	Upwind - 17	7.0	< 0.003	No
21-Sep-18	Downwind - 20	7.0	< 0.003	No
24-Sep-18	Upwind - 17	Note 1	Note 1	N/A
24-Sep-18	Downwind - 20	Note 1	Note 1	N/A
25-Sep-18	Upwind - 17	Note 1	Note 1	N/A
25-Sep-18	Downwind - 20	Note 1	Note 1	N/A
26-Sep-18	Upwind - 17	Note 1	Note 1	N/A
26-Sep-18	Downwind - 20	Note 1	Note 1	N/A
27-Sep-18	Upwind - 17	24.0	< 0.001	No
27-Sep-18	Downwind - 20	24.0	< 0.001	No
28-Sep-18	Upwind - 17	6.9	< 0.003	No
28-Sep-18	Downwind - 20	6.8	< 0.003	No
1-Oct-18	Upwind - 17	24.1	< 0.001	No
1-Oct-18	Downwind - 20	24.1	< 0.001	No
2-Oct-18	Upwind - 17	Note 2	Note 2	N/A
2-Oct-18	Downwind - 20	Note 2	Note 2	N/A
3-Oct-18	Upwind - 17	24.1	< 0.001	No
3-Oct-18	Downwind - 20	24.1	< 0.001	No
4-Oct-18	Upwind - 17	24.0	< 0.001	No
4-Oct-18	Downwind - 20	23.9	< 0.001	No
5-Oct-18	Upwind - 17	6.7	< 0.003	No
5-Oct-18	Downwind - 20	6.8	< 0.003	No
8-Oct-18	Upwind - 17	24.1	< 0.001	No
8-Oct-18	Downwind - 20	24.0	< 0.001	No
9-Oct-18	Upwind - 17	24.0	< 0.001	No
9-Oct-18	Downwind - 20	23.9	< 0.001	No
10-Oct-18	Upwind - 17	24.0	< 0.001	No
10-Oct-18	Downwind - 20	24.0	< 0.001	No
11-Oct-18	Upwind - 17	24.0	< 0.001	No
11-Oct-18	Downwind - 20	24.0	< 0.001	No
12-Oct-18	Upwind - 17	6.9	< 0.003	No
12-Oct-18	Downwind - 20	7.0	< 0.003	No
15-Oct-18	Upwind - 17	24.0	< 0.001	No
15-Oct-18	Downwind - 20	24.0	< 0.001	No

Table 4
Asbestos Monitoring Results

Sample Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm³)	Asbestos Exceedance? (Yes/No)
16-Oct-18	Upwind - 17	24.0	< 0.001	No
16-Oct-18	Downwind - 20	24.0	< 0.001	No
17-Oct-18	Upwind - 17	24.1	< 0.001	No
17-Oct-18	Downwind - 20	24.1	< 0.001	No
18-Oct-18	Upwind - 17	24.0	< 0.001	No
18-Oct-18	Downwind - 20	23.9	< 0.001	No
19-Oct-18	Upwind - 17	6.8	< 0.003	No
19-Oct-18	Downwind - 20	7.0	< 0.003	No
22-Oct-18	Upwind - 17	24.0	< 0.001	No
22-Oct-18	Downwind - 20	24.0	< 0.001	No
23-Oct-18	Upwind - 17	24.1	< 0.001	No
23-Oct-18	Downwind - 20	24.1	< 0.001	No
24-Oct-18	Upwind - 17	24.0	< 0.001	No
24-Oct-18	Downwind - 20	24.0	< 0.001	No
25-Oct-18	Upwind - 17	23.9	< 0.001	No
25-Oct-18	Downwind - 20	24.0	< 0.001	No
26-Oct-18	Upwind - 17	7.0	< 0.003	No
26-Oct-18	Downwind - 20	7.1	< 0.003	No
29-Oct-18	Upwind - 17	24.0	< 0.001	No
29-Oct-18	Downwind - 20	24.0	0.0010	No
30-Oct-18	Upwind - 17	24.1	0.0010	No
30-Oct-18	Downwind - 20	24.1	< 0.001	No
31-Oct-18	Upwind - 17	24.0	< 0.001	No
31-Oct-18	Downwind - 20	24.1	< 0.001	No
1-Nov-18	Upwind - 17	24.0	< 0.001	No
1-Nov-18	Downwind - 20	23.9	< 0.001	No
2-Nov-18	Upwind - 17	7.1	< 0.003	No
2-Nov-18	Downwind - 20	7.0	< 0.003	No
5-Nov-18	Upwind - 17	24.0	< 0.001	No
5-Nov-18	Downwind - 20	24.0	< 0.001	No
6-Nov-18	Upwind - 17	24.1	< 0.001	No

# **Table 4 Asbestos Monitoring Results**

Sample Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm³)	Asbestos Exceedance? (Yes/No)
6-Nov-18	Downwind - 20	24.0	< 0.001	No
7-Nov-18	Upwind - 17	24.0	< 0.001	No
7-Nov-18	Downwind - 20	24.1	< 0.001	No

#### Notes:

Sample locations are shown on Figure 1.

The threshold value for asbestos is 0.1 fibers/cm<sup>3</sup>.

The detection limit is 0.003 fibers/cm<sup>3</sup> assuming a minimum sample volume of 900 liters.

fibers/cm<sup>3</sup> - fibers per cubic centimeter

N/A - not applicable

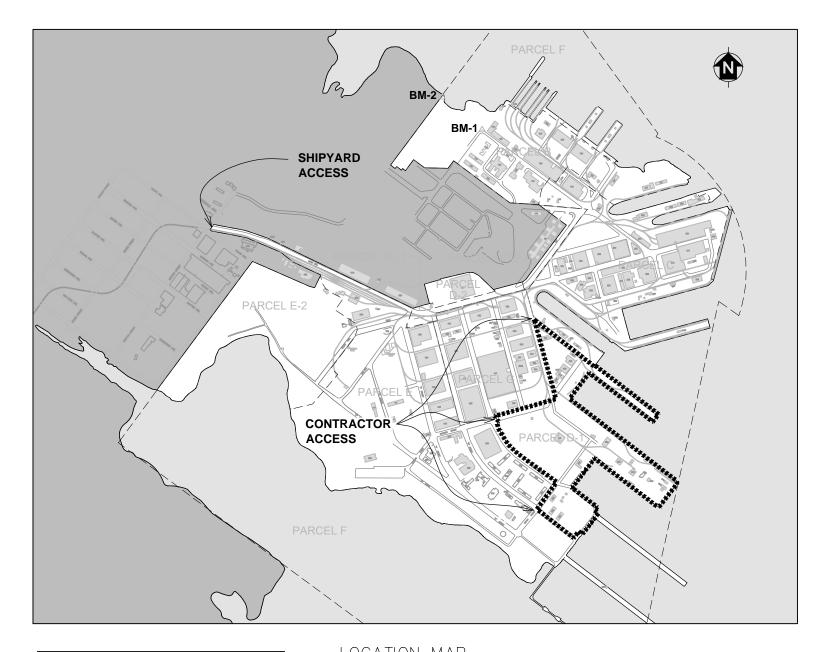
ND - Not detected

Note 1 - Sample not collected due to no earth moving activities on site

Note 2 - Sample not collected due to inclement conditions: Rain.

# Appendix F Construction As-Builts

# HUNTERS POINT NAVAL SHIPYARD SAN FRANCISCO, CALIFORNIA PARCEL D-1 (PHASE II) DURABLE COVER RECORD DRAWINGS



	SURVEY BI	ENCHMARKS	
Control Point	Easting	Northing	Elevation
BM-1	1460168.99	453718.89	11.76
BM-2	1459671.50	454121.67	5.81

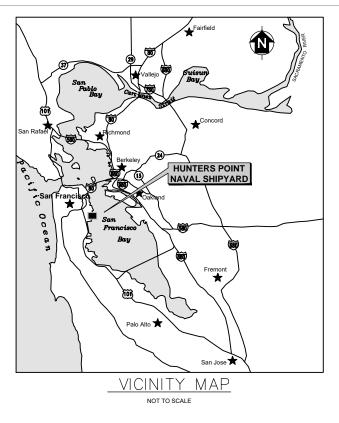
NOTE: OFF-SITE TOPOGRAPHY HAS BEEN SHOWN AS REFERENCED BUT HAS NOT BEEN TIED TO THE SITE TOPOGRAPHY. EXISTING TOPOGRAPHY ESTIMATED PRECISION ± 1' DUE TO MINOR REGRADING OF THE SITE FOLLOWING AS SHOWN BASELINE SURVEY.

L	<u>.OCA</u>	<u> </u>	<u> М</u>	AP	
600'	0		600'	1	200'
	SCALE	: 1" =	= 600	,	

SURVEY.

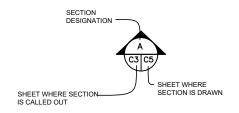
BASIS OF BEARINGS AND ELEVATION

HORIZONTAL: NAD 1927 ZONE-III (HUNTERS POINT WEST 1 PID HT0613) USFT. VERTICAL: NGVD 29

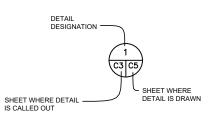


#### INDEX OF DRAWINGS

DWG	DESCRIPTION
_G1	VICINITY MAP, LOCATION MAP, AND SHEET INDEX
C1	PRE-EXISTING SITE PLAN PHASE II
_C2	CLEARING, GRUBBING, AND SURFACE DEBRIS REMOVAL PHASE II
C3	FINAL MONITORING WELLS AND RIPRAP REPAIR AREAS
C4	FINAL GRADING PLAN
C5	DETAILS (1 OF 2)
	DETAILS (2 OF 2)



NOTE: SECTIONS ARE CALLED OUT ON FIRST RELEVANT SHEET ONLY.



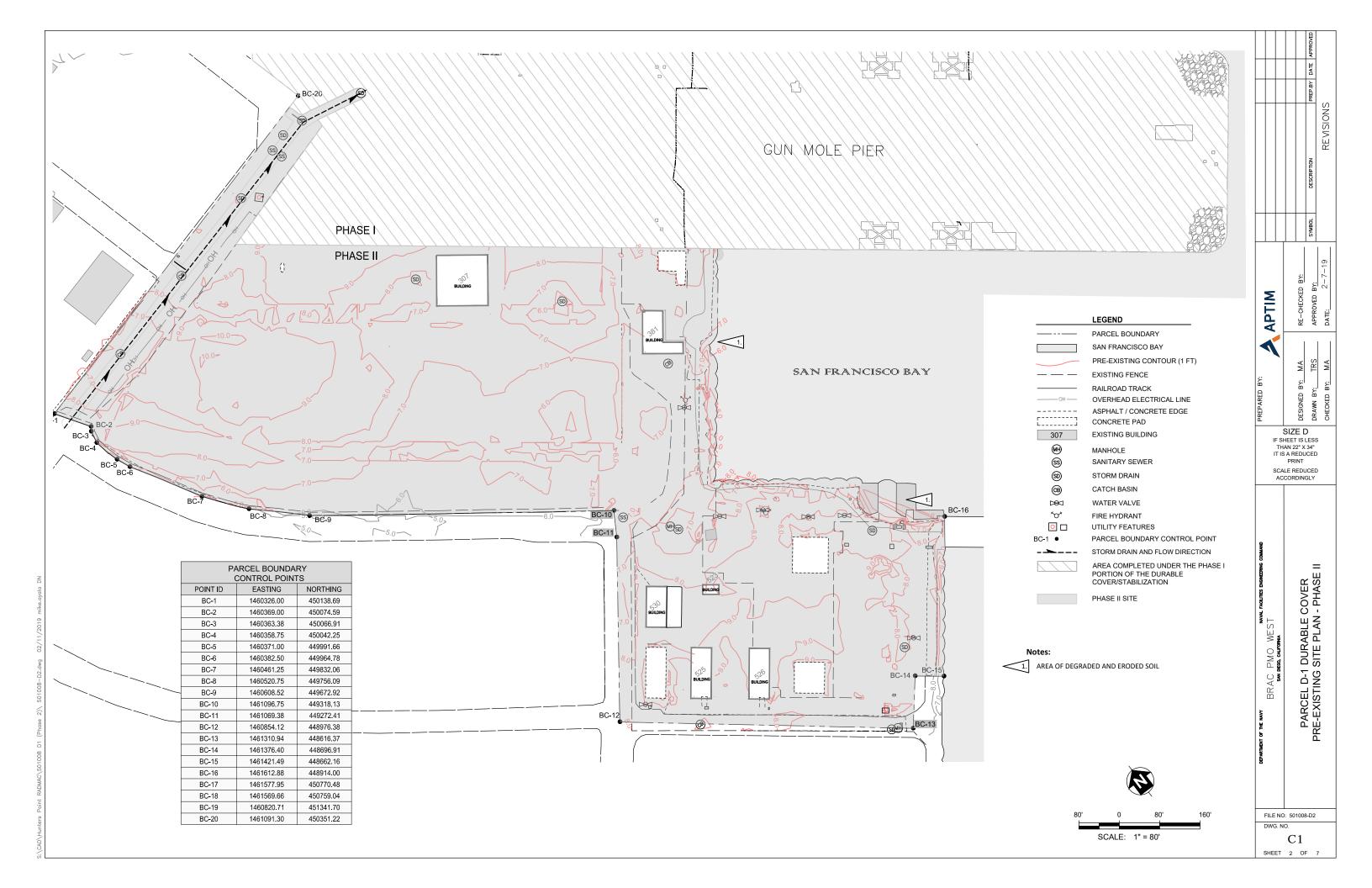
NOTE: DETAILS ARE CALLED OUT ON FIRST RELEVANT

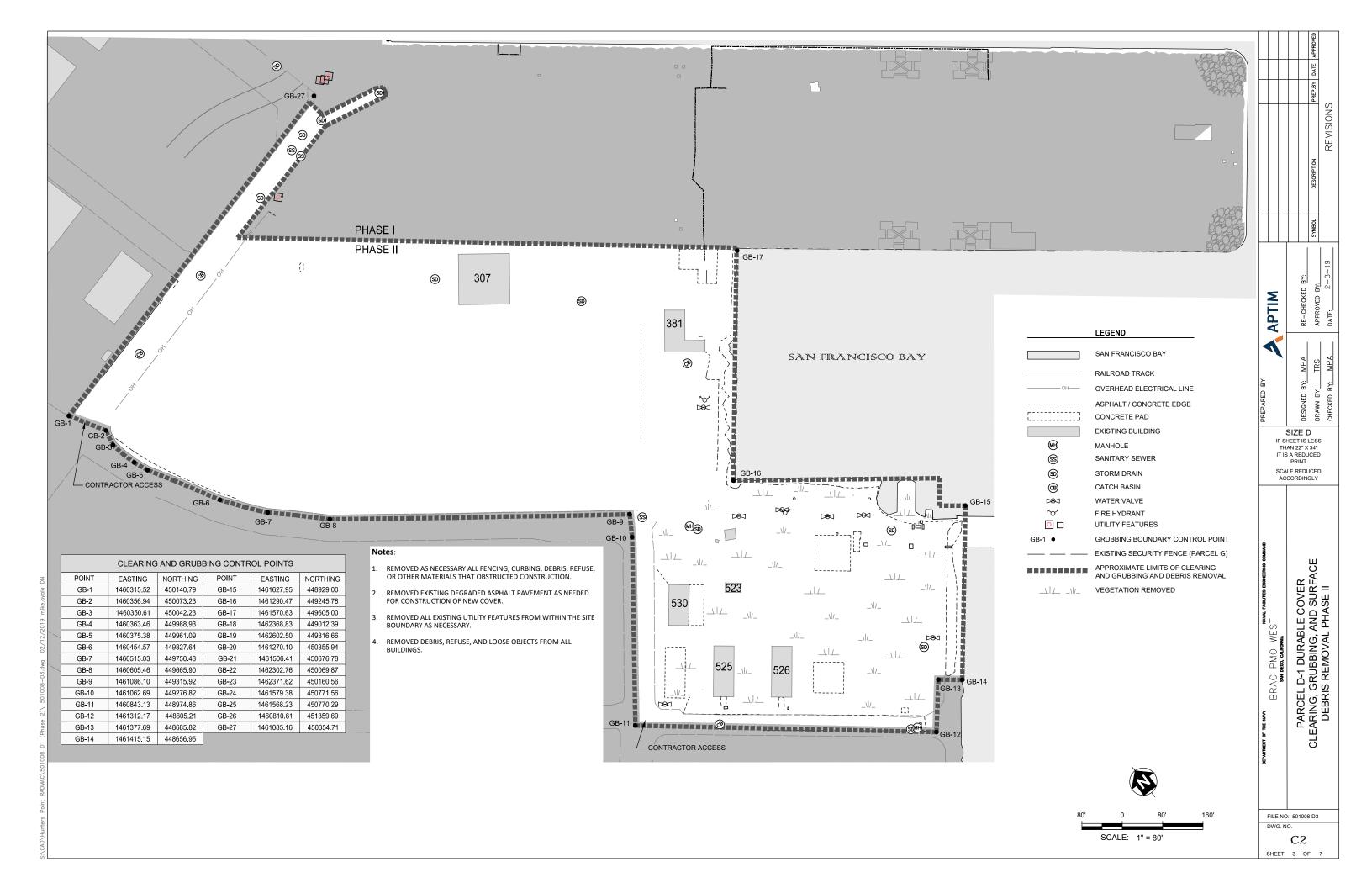
		PREP.BY DATE APPROVED	SNO
		DESCRIPTION	REVISIONS
		SYMBOL	
A APTIM	RE-CHECKED BY:	APPROVED BY:	DATE: 2-4-19
PREPARED BY:	DESIGNED BY:	DRAWN BY:	
T IT SC	2" X EDU INT EDU	34" ICED JCED	
DEPARTMENT OF THE NAVY BRAC PMO WEST SAUTHES ENGREEDING COMMAND SALVENDED CALEFORMS. THE COMMAND CALEFORMS AND PRESENCE OF THE PROPERTY OF TH	PARCEL D-1 DURABLE COVER	VICINITY MAP, LOCATION MAP, AND	SHEET INDEX

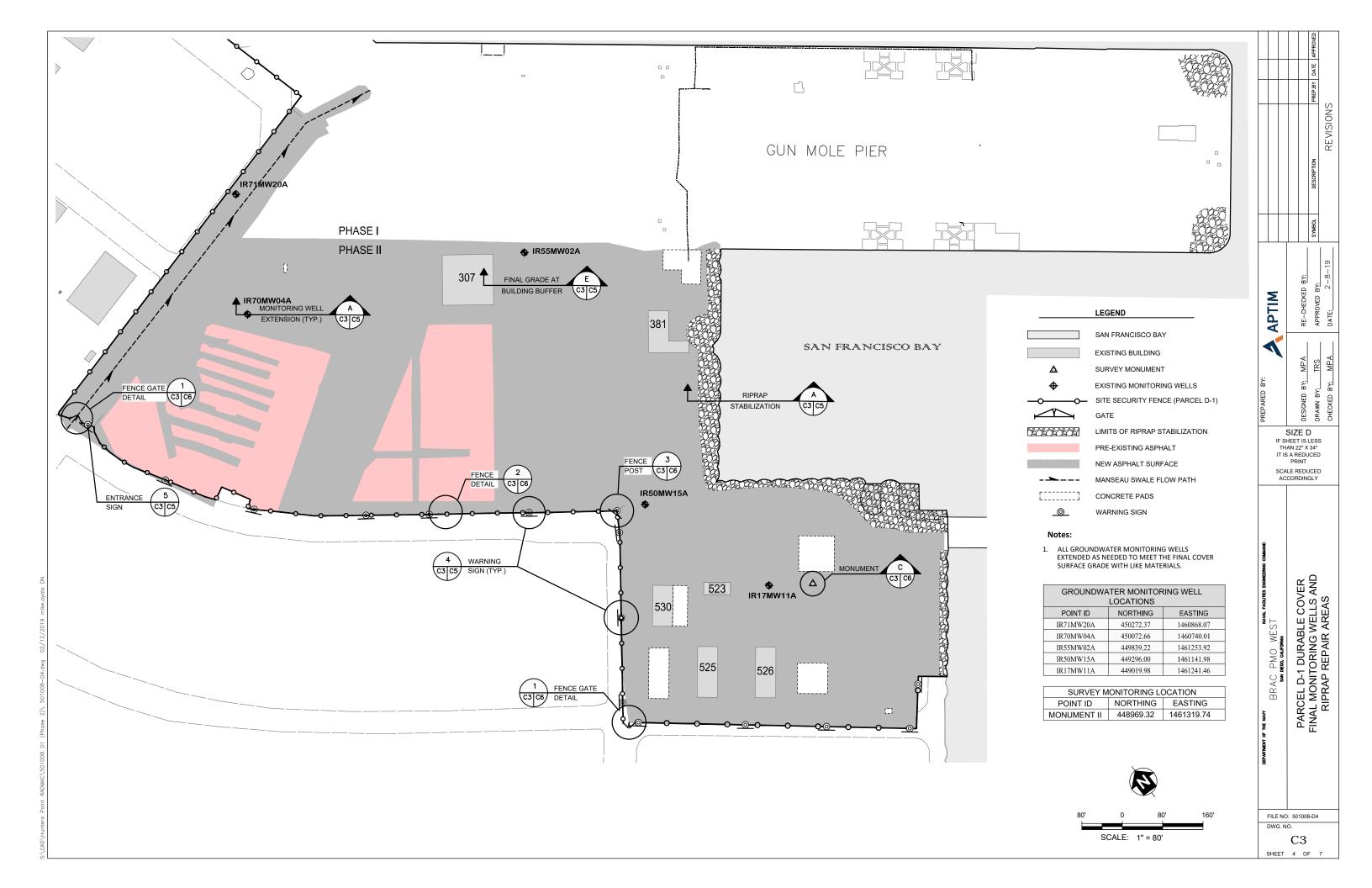
FILE NO: 501008-D1

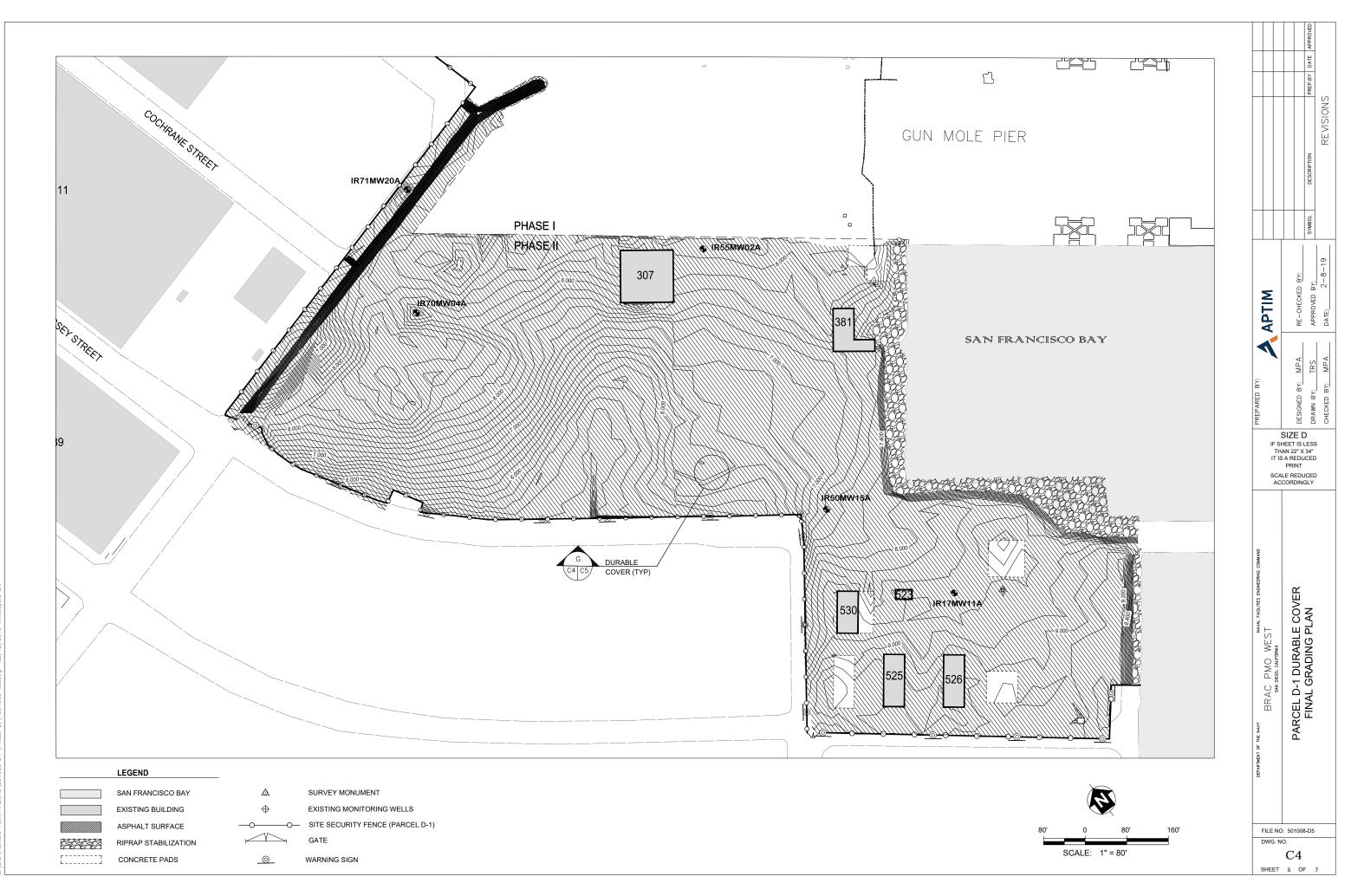
G1

SHEET 1 OF 7

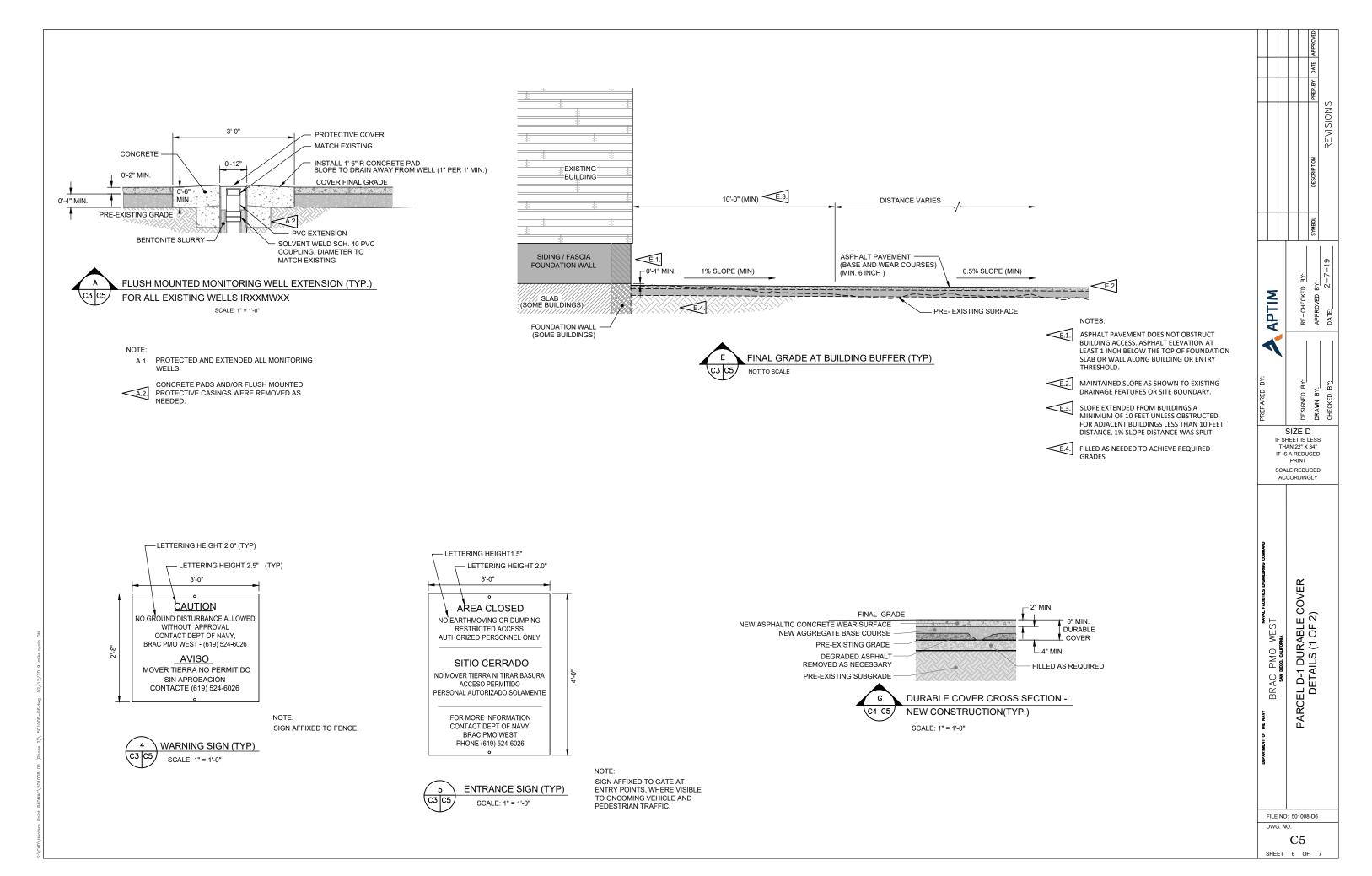


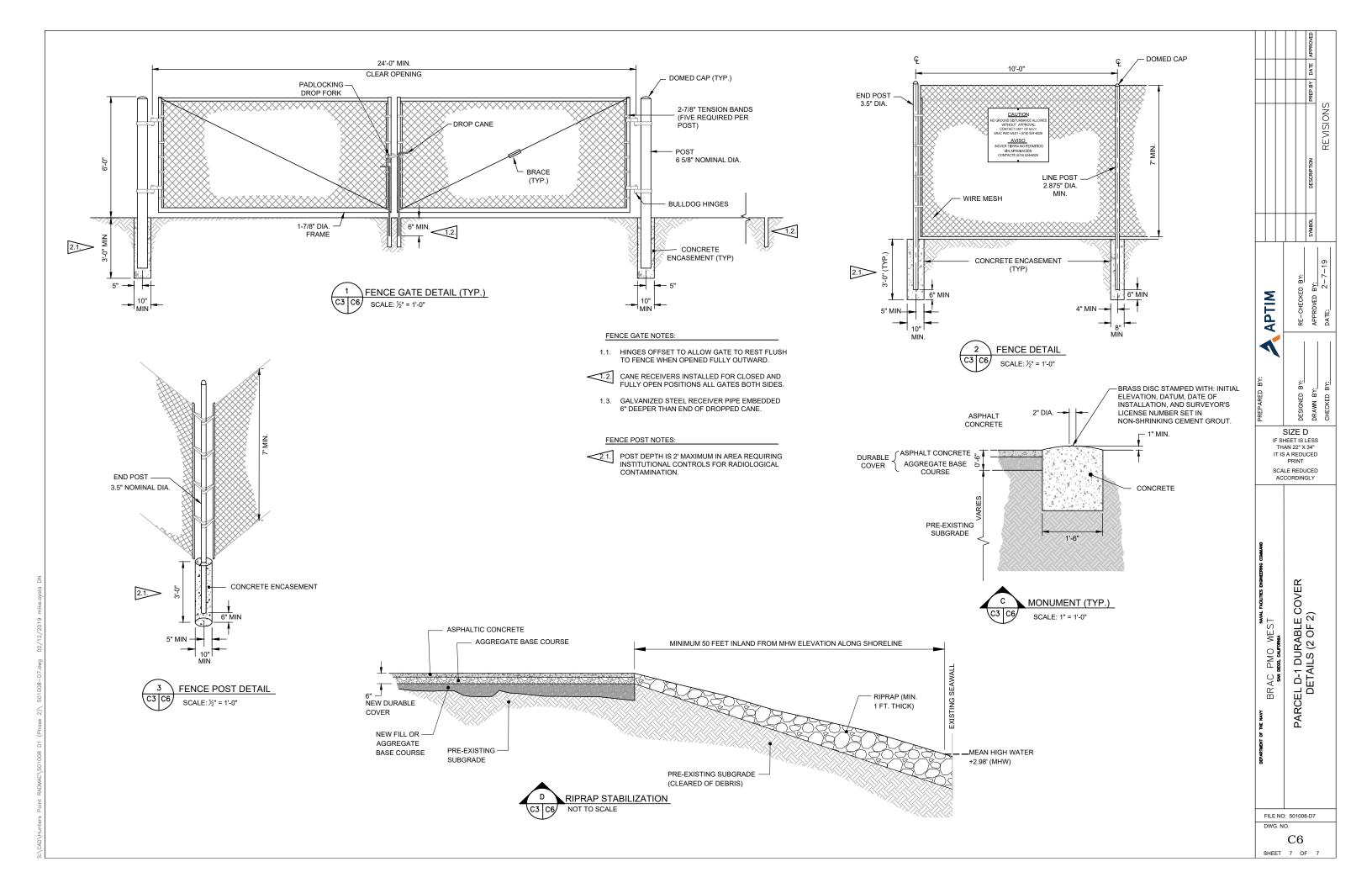






Inters Paint RADMAC\501008 D1 (Phase 2)\ 501008=05 dwg 02/12/2019 mike and DN





# Appendix G Photograph Log



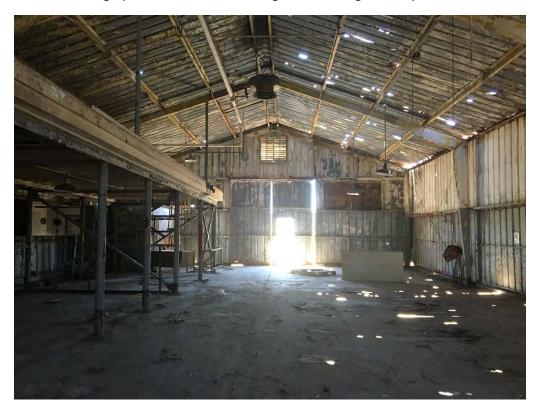
Photograph 1—Parcel D—1 Phase II, before mobilization, facing east towards Buildings 307, 381, and Gun Mole Pier—July 11, 2018



Photograph 2–Building 381 and Berth 21 before mobilization–July 11, 2018



Photograph 3–Asbestos–containing tiles, Building 526–July 11, 2018



Photograph 4–Building 526, before mobilization–July 11, 2018



Photograph 5-Installing turbidity curtains-August 13, 2018



Photograph 6-Linking turbidity curtains together-August 13, 2018



Photograph 7–Performing utility clearance in Parcel D–1 Phase II–August 13, 2018



Photograph 8–Turbidity curtain tied off–August 13, 2018



Photograph 9–Clearing and grubbing activities–August 14, 2018



Photograph 10–Clearing and grubbing activities–August 14, 2018



Photograph 11–Dust suppression during clearing and grubbing–August 14, 2018



Photograph 12–Staging metal debris–August 15, 2018



Photograph 13–Clearing metal fence–August 15, 2018



Photograph 14–Removing debris from Building 530–August 15, 2018



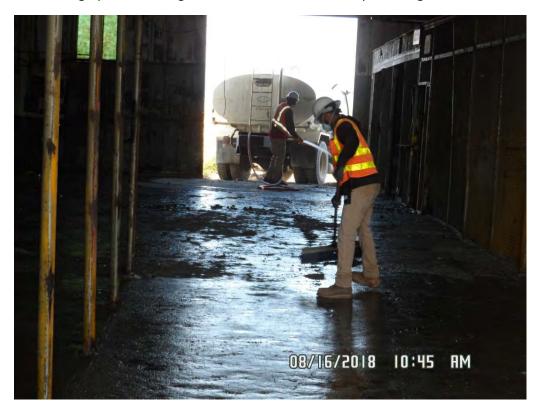
Photograph 15–Clearing debris with dust suppression from outside Building 525–August 16, 2018



Photograph 16–Clearing large debris–August 16, 2018



Photograph 17–Loading debris into bins for offsite disposal–August 16, 2018



Photograph 18–Wetting the floor and sweeping up debris inside of Building 525–August 16, 2018



Photograph 19–Chain link fence removal–August 17, 2018



Photograph 20–Dust control on debris pile, Building 381 in background–August 17, 2018



Photograph 21–Placing best management practices (BMPs) next to swale–August 17, 2018



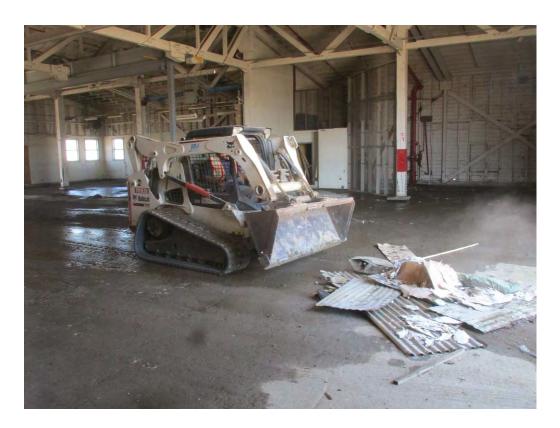
Photograph 22–Transporting debris to bins–August 17, 2018



Photograph 23–Removing dirt and debris from Building 307–August 17, 2018



Photograph 24–Staging scrap metal–August 17, 2018



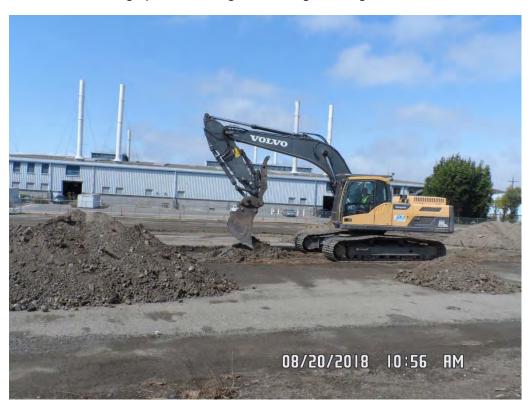
Photograph 25–Removing debris from Building 307–August 17, 2018



Photograph 26–BMPs in place in Parcel D–1–August 17, 2018



Photograph 27–Clearing out Building 307–August 20, 2018



Photograph 28–Subgrade preparation–August 20, 2018



Photograph 29–Using road broom to identify existing asphalt surfaces–August 20, 2018



Photograph 30–Applying dust control–August 20, 2018



Photograph 31–Clearing and grubbing along Parcel D–1 Phase I/II boundary–August 21, 2018



Photograph 32–Existing asphalt requiring repair, facing northeast towards Building 307–August 21, 2018



Photograph 33—Existing asphalt and strip requiring new asphalt, facing south towards Buildings 530, 525, 526, 523—August 21, 2018



Photograph 34–Placing debris into bins for disposal–August 21, 2018



Photograph 35–Air monitoring station–August 22, 2018



Photograph 36–Building 523 before clean out and repairs to foundation–August 22, 2018



Photograph 37–Subgrade preparation–August 22, 2018



Photograph 38–Subgrade preparation–August 22, 2018



Photograph 39–Placing riprap to stabilize (armor) the seawall at Berth 21–August 23, 2018



Photograph 40–Clearing and grubbing in Manseau Street swale–August 23, 2018



Photograph 41–Removing wooden light pole–August 27, 2018



Photograph 42–Subgrade preparation–August 27, 2018



Photograph 43–Cleaning Building 307–August 28, 2018



Photograph 44–Ceramic Insulators, Building 523–August 28, 2018



Photograph 45–Debris bin traveling over tire wash prior to leaving the site–August 29, 2018



Photograph 46–Debris bin traveling through the portal monitor prior to leaving the site–August 29, 2018



Photograph 47–Loading trucks with metal debris–August 29, 2018



Photograph 48–Tarping truck after loading bin–August 29, 2018



Photograph 49–Placing riprap for seawall stabilization in Berth 22 area–September 4, 2018



Photograph 50–Smooth drum roller compacting subgrade material–September 4, 2018



Photograph 51–Gamma walkover survey (GWS) of asphalt area–September 5, 2018



Photograph 52–Field–checking grade–September 6, 2018



Photograph 53–GWS–September 11, 2018



Photograph 54–Cleaning out Building 381–September 13, 2018



Photograph 55–Subgrade compaction testing–September 13, 2018



Photograph 56–Placing covers over the openings in Building 523–September 18, 2018



Photograph 57–Radiological technician performing follow up surveys–September 21, 2018



Photograph 58–GWS in the Building 500 area–September 25, 2018



Photograph 59–Staking area for import of aggregate base (AB) material–September 25, 2018



Photograph 60–Sealing cracks in Building 381–September 26, 2018



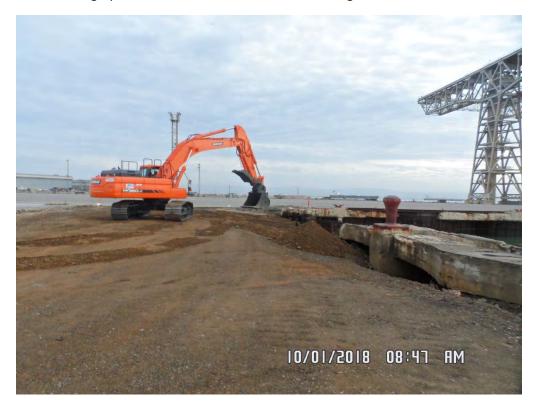
Photograph 61–Sealing cracks in Building 307–September 26, 2018



Photograph 62–Preparing subgrade in the Building 500 area–September 28, 2018



Photograph 63–GWS in erosion area near Building 381–October 1, 2018



Photograph 64–Subgrade preparation, Berth 21 near Building 381–October 1, 2018



Photograph 65–Field–checking elevation of riprap–October 3, 2018



Photograph 66–Placing geotextile fabric over subgrade prior to placing riprap–October 3, 2018



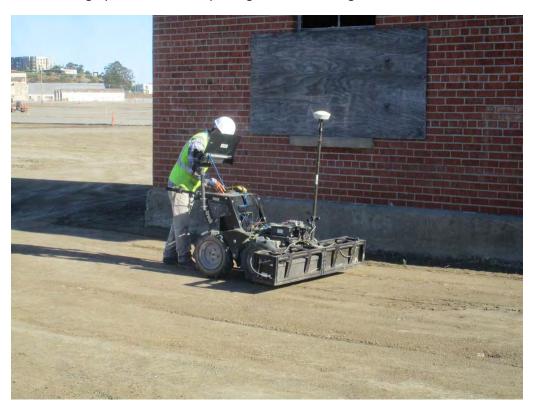
Photograph 67–Placing riprap–October 3, 2018



Photograph 68–Spreading AB material near Building 307 for subgrade–October 8, 2018



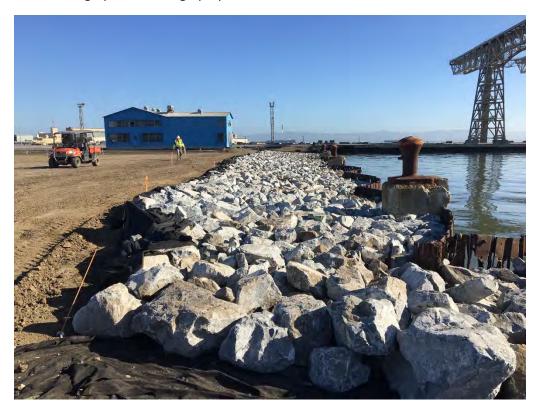
Photograph 69–Roller compacting AB near Building 307–October 8, 2018



Photograph 70–Colleting follow–up measurements near Building 523–October 8, 2018



Photograph 71–Placing riprap in erosion area at Berth 21–October 9, 2018



Photograph 72–Riprap placed in erosion areas at Berth 21, facing northeast–October 9, 2018



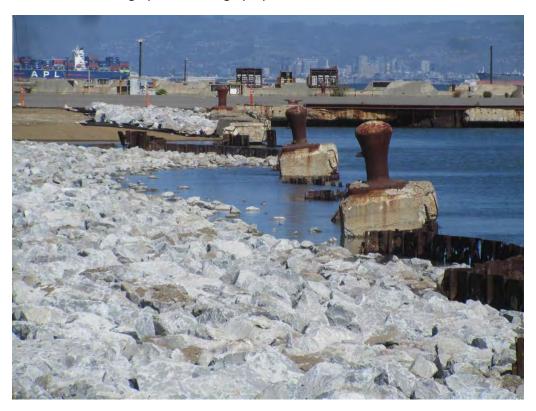
Photograph 73–Setting grade stake–October 9, 2018



Photograph 74–Unknown well (potentially IR08MW39A)–October 9, 2018



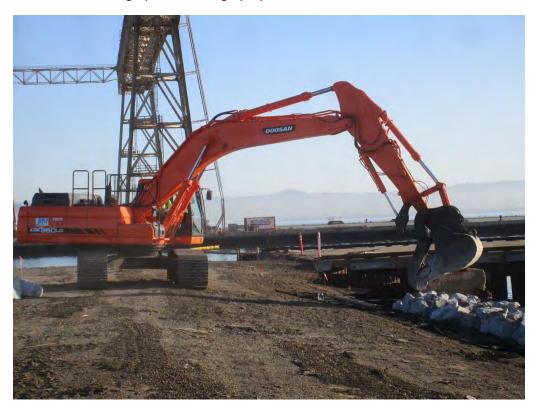
Photograph 75–Placing riprap at Berth 22–October 9, 2018



Photograph 76–High tide, Berth 21–October 10, 2018



Photograph 77–Placing riprap at Berth 22–October 10, 2018



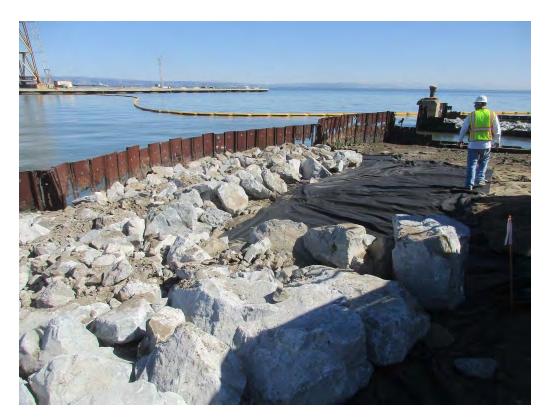
Photograph 78–Placing riprap at Berth 23–October 12, 2018



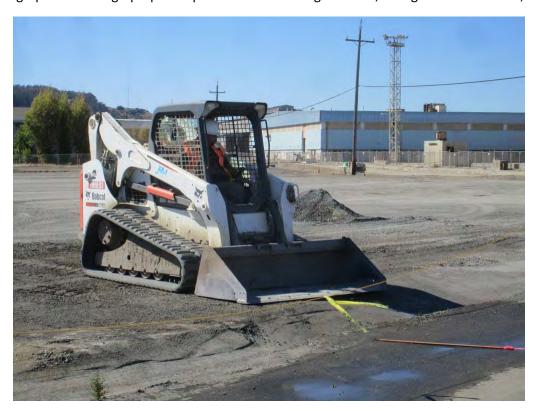
Photograph 79–Riprap along Berth 29, facing north–October 12, 2018



Photograph 80–Compacting AB between Building 307 and Hussey St–October 15, 2018



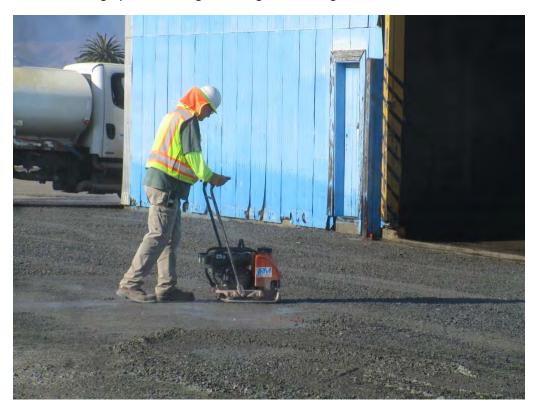
Photograph 81–Placing riprap on top of filter fabric along Berth 22, facing east–October 15, 2018



Photograph 82–Shaping the transition between Phase I and Phase II–October 15, 2018



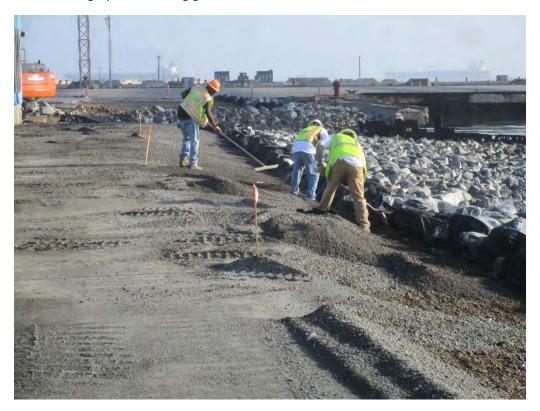
Photograph 83–Placing AB at edge of Building 307–October 16, 2018



Photograph 84–Using vibroplate to compact subgrade around Building 307–October 17, 2018



Photograph 85–Setting grade of Manseau Street swale–October 19, 2018



Photograph 86–Preparing subgrade at riprap transition, Berth 21–October 19, 2018



Photograph 87–Loading wood waste–October 22, 2018



Photograph 88–Placing wood waste into truck for disposal–October 22, 2018



Photograph 89–Wetting area for AB placement and compaction, Berth 20–October 24, 2018



Photograph 90–Asphalt delivery near Manseau St. swale, spotter for overhead power lines–October 24, 2018



Photograph 91–Riprap at Berth 21, facing south–October 24, 2018



Photograph 92–Crack repair in Building 530–October 25, 2018



Photograph 93–Working AB at edges of riprap–October 25, 2018



Photograph 94–Removing excess AB along edges of concrete slab–October 26, 2018



Photograph 95–Motor grader working near Mahan and Hussey Streets–October 29, 2018



Photograph 96–Power sweeping existing asphalt–October 29, 2018



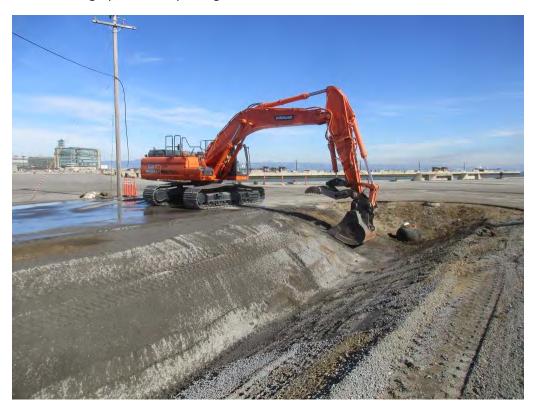
Photograph 97–Compacting AB on wall of Manseau St. swale–October 31, 2018



Photograph 98–Grading AB in Manseau St swale–November 1, 2018



Photograph 99–Compacting AB in Manseau St swale–November 2, 2018



Photograph 100–Leveling and compacting swale–November 2, 2018



Photograph 101–Grading Manseau St. swale–November 2, 2018



Photograph 102–Compacting asphalt in Manseau St. swale–November 5, 2018



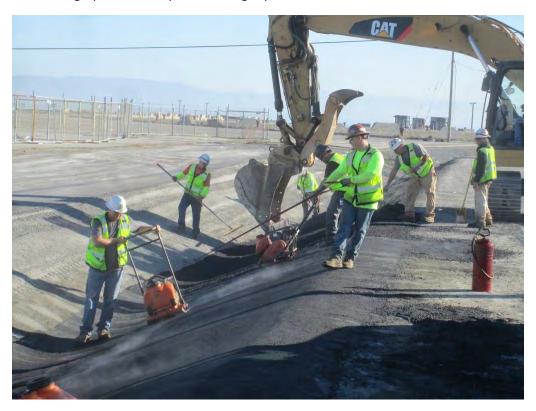
Photograph 103–Grinding edge of existing asphalt–November 5, 2018



Photograph 104–Placing asphalt in Manseau St. swale – November 5, 2018



Photograph 105–Compactor rolling asphalt near Berth 21–November 6, 2018



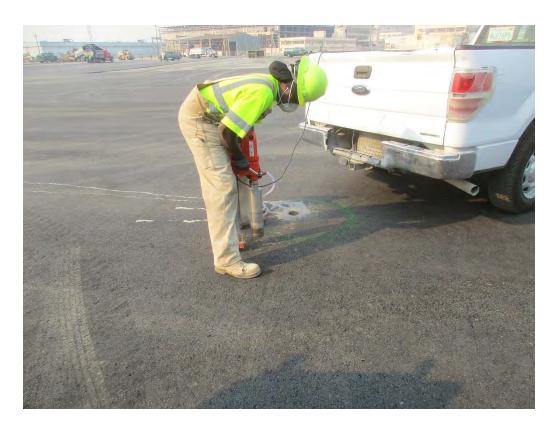
Photograph 106–Placing and compacting asphalt in Manseau St swale–November 6, 2018



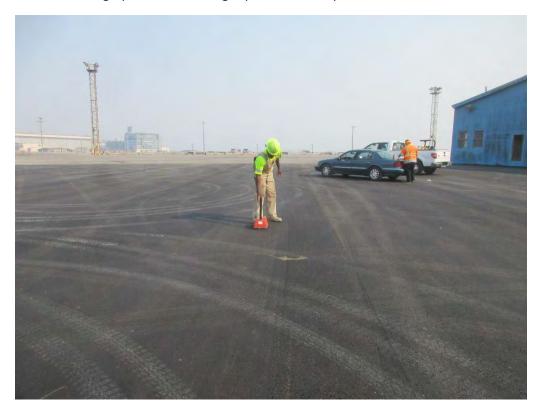
Photograph 107–Density testing asphalt with nuclear gauge–November 7, 2018



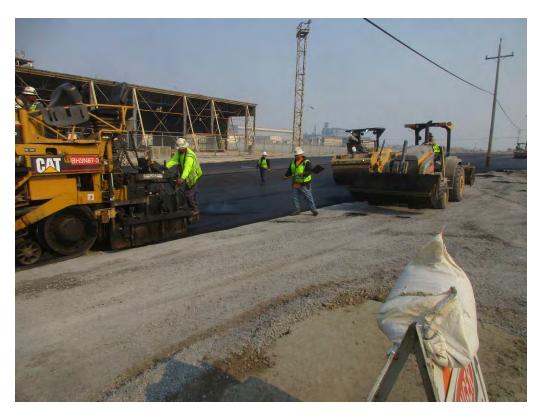
Photograph 108–Blending seam of new asphalt–November 7, 2018



Photograph 109–Collecting asphalt core samples–November 9, 2018



Photograph 110–Density testing asphalt with nuclear gauge–November 9, 2018



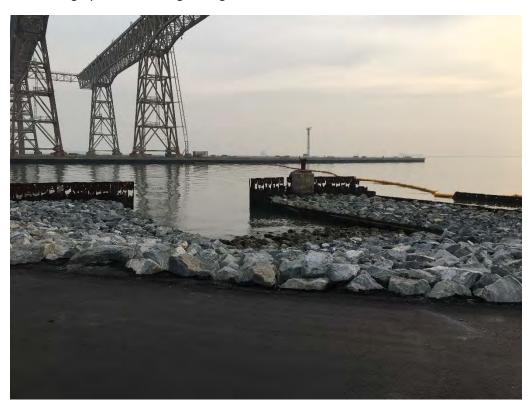
Photograph 111–Placing asphalt near Manseau St.–November 9, 2018



Photograph 112–Skip loader pulling asphalt grindings from edge of existing asphalt–November 12, 2018



Photograph 113—Paving, facing south towards Parcel E—November 13, 2018



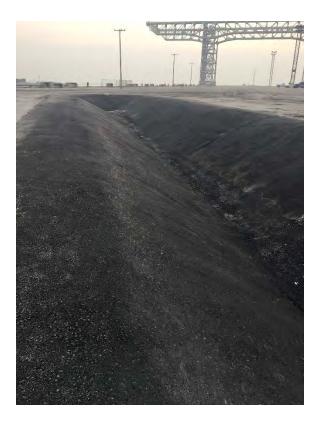
Photograph 114 – Berth 22 riprap–November 13, 2018



Photograph 115–Berth 22 riprap–November 13, 2018



Photograph 116 – Paved Manseau St swale, facing west–November 13, 2018



Photograph 117–Paved Manseau St swale, facing east towards the Gun Mole Pier–November 13, 2018



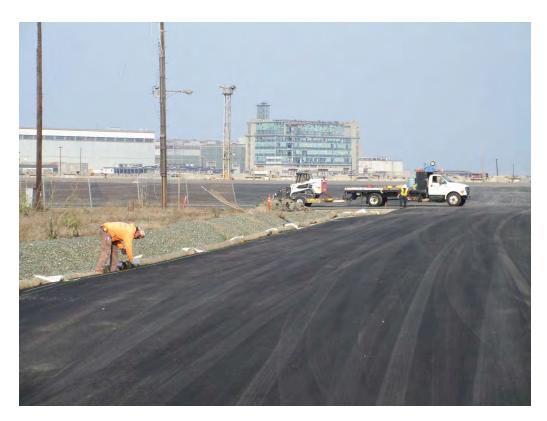
Photograph 118–Surveyors marking well locations in Parcel D–1 for extensions–November 15, 2018



Photograph 119–Well box extension for existing monitoring well–November 19, 2018



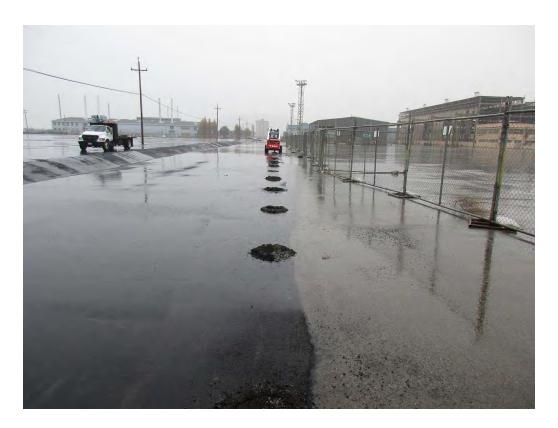
Photograph 120–Clearing out any soil or debris from well box IR71MW20A–November 20, 2018



Photograph 121–Establishing fence line ParceD-1 boundary along Mahan St–November 20, 2018



Photograph 122–Well IR50MW15A completed extension with new well box–November 20, 2018



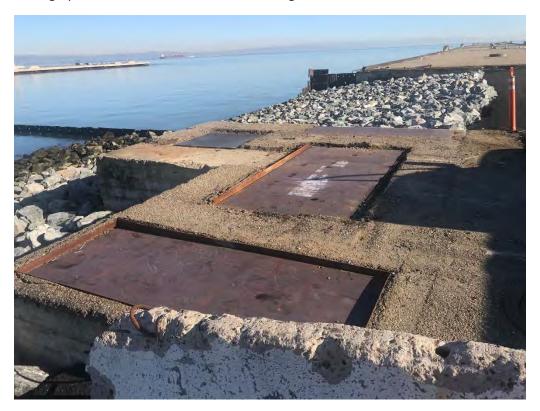
Photograph 123–Coring through asphalt for fence installation–November 21, 2018



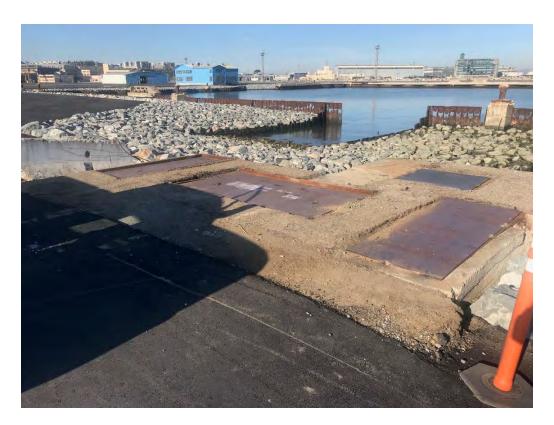
Photograph 124–Digging post hole for fence–November 28, 2018



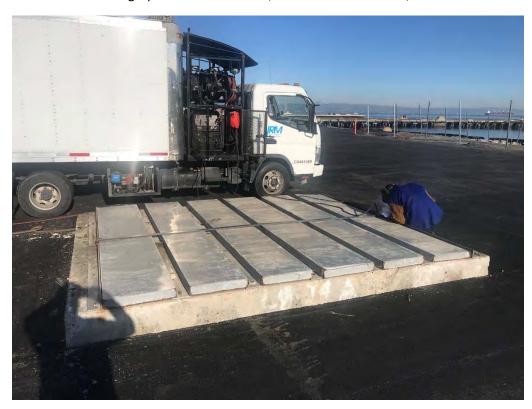
Photograph 125–Asbestos contractor removing mastic from floor–November 29, 2018



Photograph 126–Vault covers, Berth 22–December 7, 2018

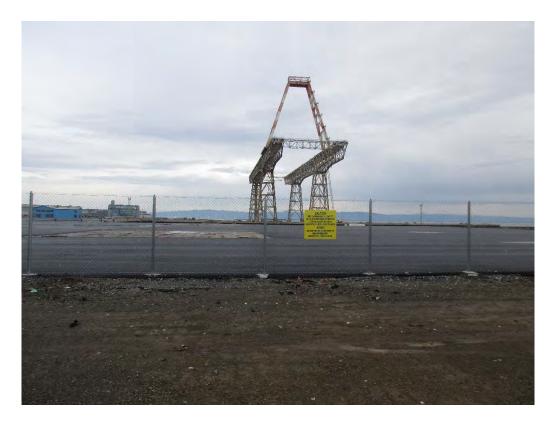


Photograph 127–Vault covers, Berth 22–December 7, 2018



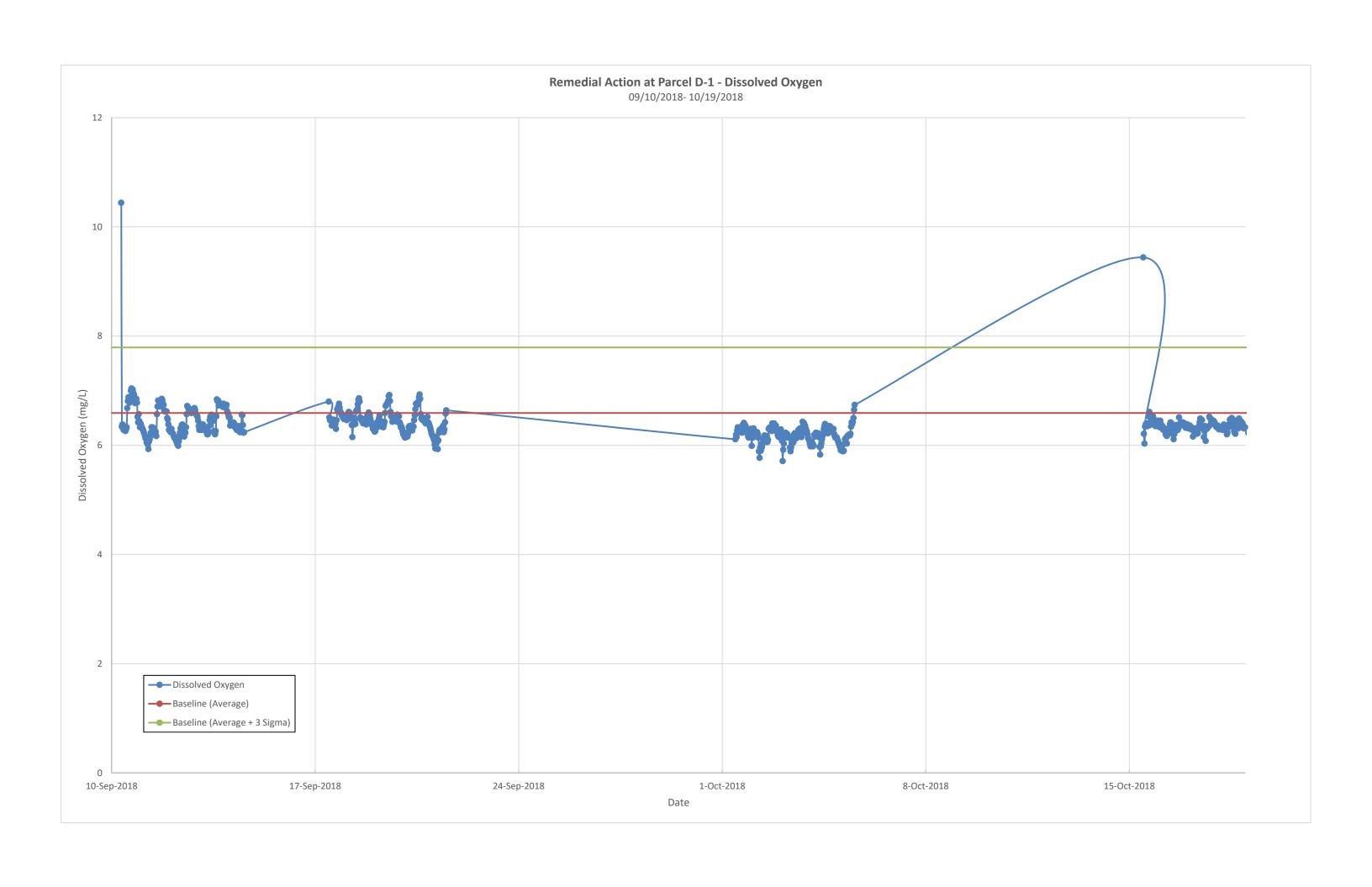
Photograph 128–Securing vault cover–December 7, 2018

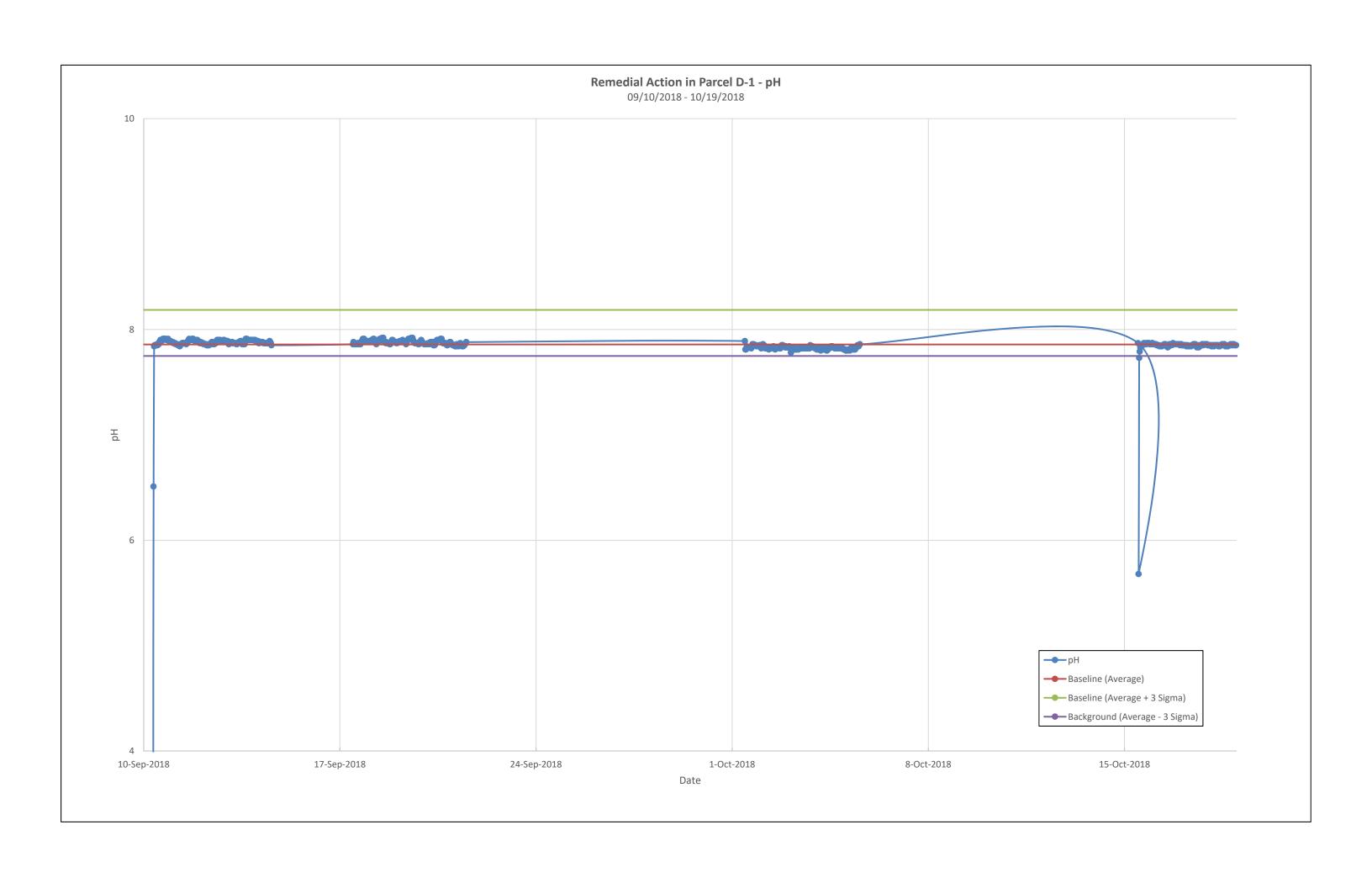
### PHOTOGRAPH LOG

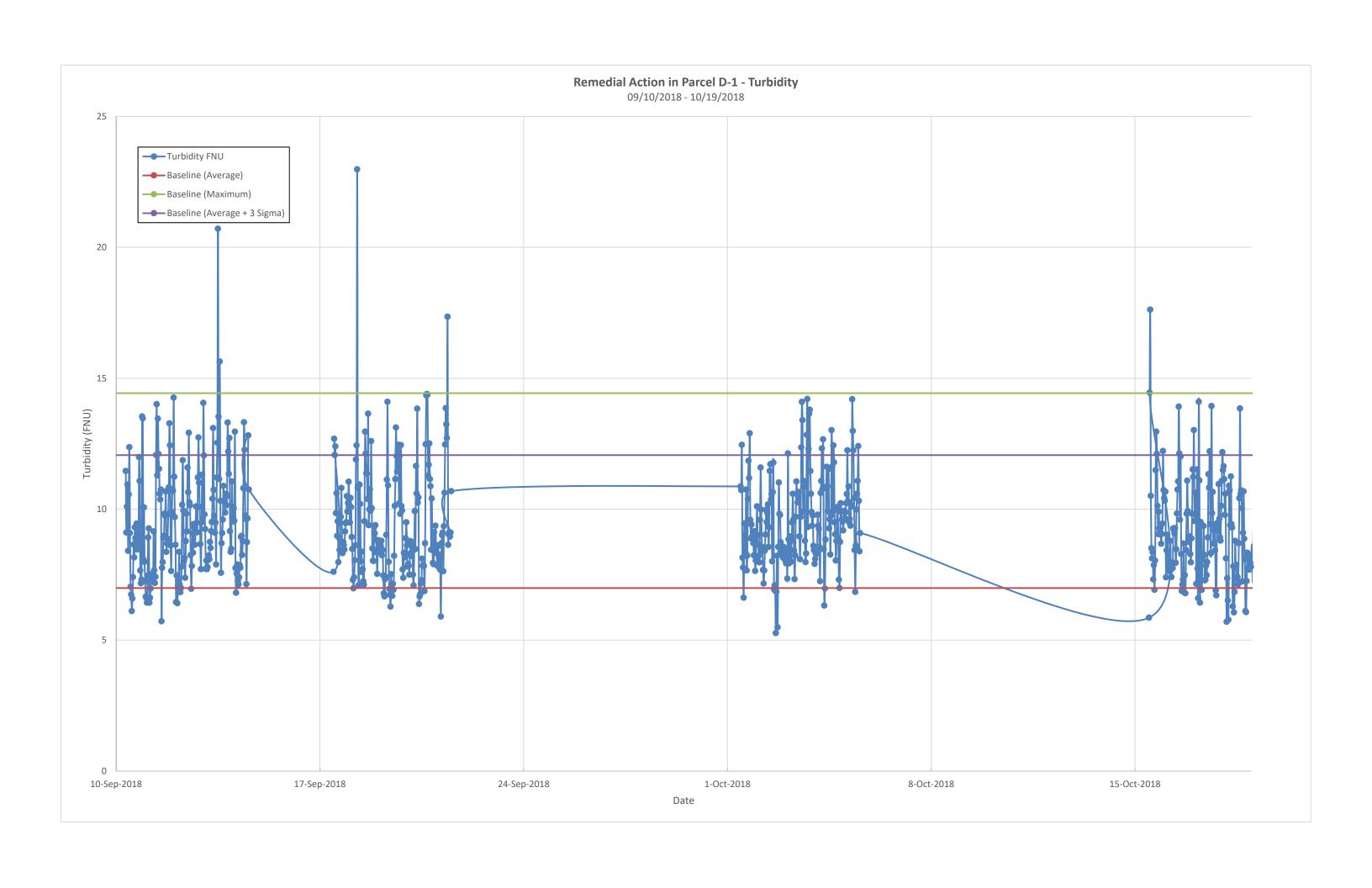


Photograph 129–Permanent fence and signs, adjacent to Building 606–January 14, 2019

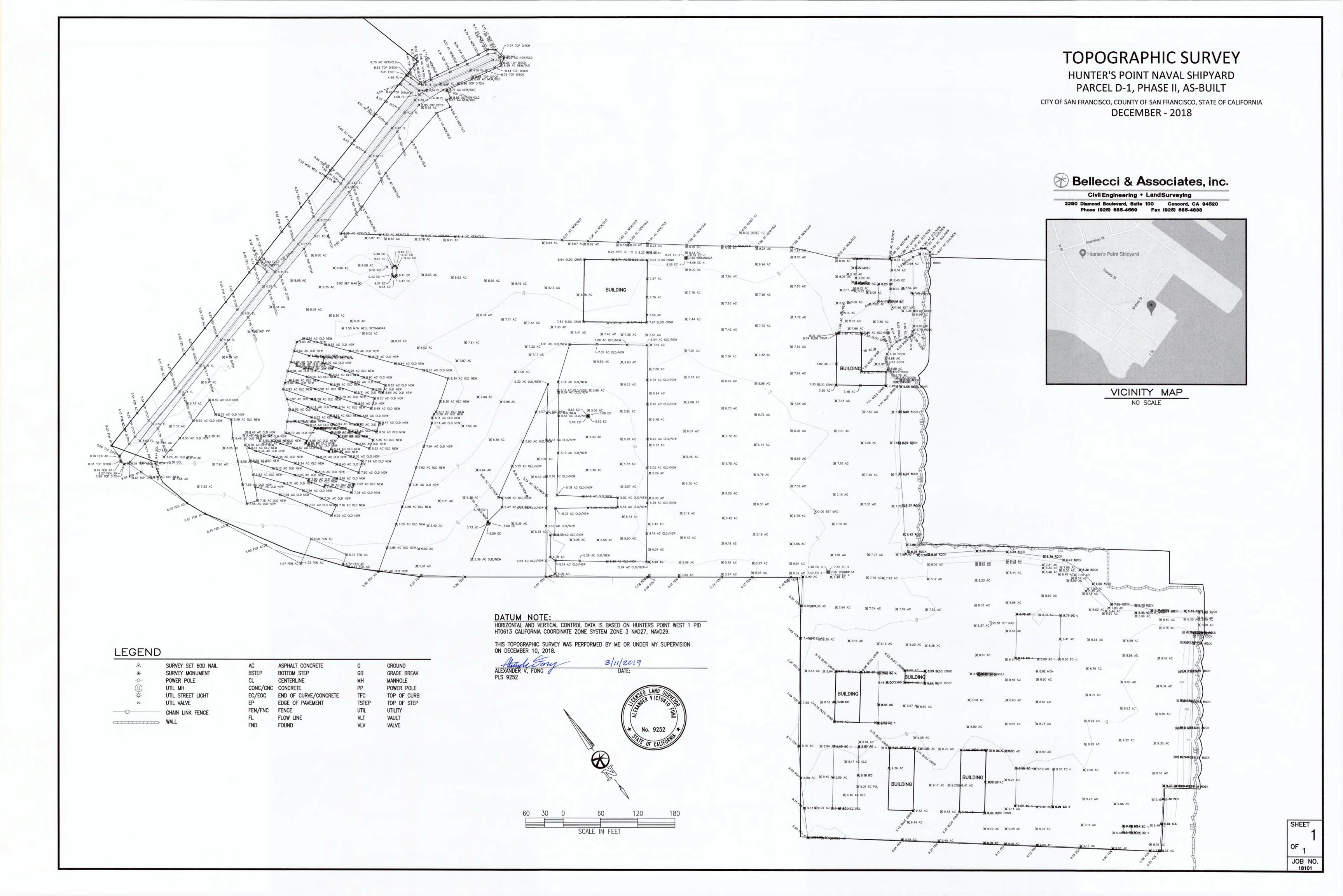
# **Appendix H** Water Quality Monitoring Results (provided on electronic copy only)







# Appendix I Final Topographic Survey



# Appendix J Pre-Final and Final Inspection Checklists

### **Pre-FINAL INSPECTION**

(This list may be addendum.)

CONTRACT # & TITLE: N62473-12-D-2005; CTO-4550; Remedial Action in Parcel D-1

CONTRACTOR: APTIM Federal Services.

DATE OF INSPECTION: March 12, 2019

### **INSPECTION PARTY**

NAME	TITLE	REPRESENTING
Mark R. Egan	QC Manager	APTIM
Doug Delong	CSO	Navy

- 1. The contractor hereby acknowledges the construction deficiencies listed below; conditions of workmanship and/or materials that do not comply with the contract requirements, and agrees to correct such deficiencies to meet contract requirements, at no additional cost to the Government, on or before <u>close of project</u>. This is not to be construed as a waiver of the warranty provisions of the contract.
- 2. Correction of the deficiencies listed below:

a. Construction Deficiencies:

#	Description	Location	Trade	Date completed \ Initials
1	Exposed soil in seams in the area west of Bldg 307 requires additional asphalt coating (approximately 8-10 areas)	Parcel D-1	Subcontractor	
2	Transport and disposal of soil stockpile adjacent to Bldg. 606	Parcel D-1	Subcontractor	

b. Design Deficiencies: N/A

c. General Comments: N/A

## Appendix K **Geotechnical Data**

(provided on electronic copy only)

CONTRACT NUMBER	ONTRACT NUMBER  N62473-12-D-2005				AND LOCATION					CONTRACTOR	
N	62473-12-[	D-2005			Remedial A	ction In Parcel D	-1 (Phas	e II)		APTI	M Federal Services
SPECIFICATION SECTION AND PARAGRAPH	ITEM OF		APPR	EDITED/ COVED AB				ATION TEST OFF	DATE	DATE FORWARDED TO	
NUMBER	WORK	TEST REQUIRED	YES	NO	SAMPLED BY	TESTED BY	SITE	SITE	COMPLETED	CONTR. OFF.	REMARKS
31 00 00		CTM 301	Х		CB&I	Smith Emery		Х	06.27.2016	07.12.2016	Stockpiled material from Phase I
31 00 00		ASTM D1557	Х		Smith Emery	Smith Emery	Х	Х	09.28.2016	10.27.2016	
31 00 00		ASTM D6938	Х			Smith Emery	Х				Subgrade Compaction
31 00 00		ASTM D6938	Х			Smith Emery	Х		09.13.18		
31 00 00		ASTM D6938	Х			Smith Emery	Х		09.13.18		
31 00 00		ASTM D6938	Х			Smith Emery	Х		09.13.18		
31 00 00		ASTM D6938	X			Smith Emery	X		09.13.18		
31 00 00		ASTM D6938	Х			Smith Emery	Х		09.13.18		
31 00 00		ASTM D6938	Х			Smith Emery	Х		09.13.18		
31 00 00		ASTM D6938	Х			Smith Emery	Х		09.13.18		
31 00 00		ASTM D6938	Х			Smith Emery	Х		09.13.18		
31 00 00		ASTM D6938	Х			Smith Emery	Х		09.13.18		
31 00 00		ASTM D6938	Х			Smith Emery	Х		09.13.18		
31 00 00		ASTM D6938	Х			Smith Emery	Х		09.13.18		
31 00 00		ASTM D6938	Х			Smith Emery	Х		09.13.18		
31 00 00		ASTM D6938	Х			Smith Emery	Х		09.13.18		
31 00 00		ASTM D6938	Х			Smith Emery	Х		09.13.18		
31 00 00		ASTM D6938	Х			Smith Emery	Х		09.13.18		
31 00 00		ASTM D6938	Х			Smith Emery	Х		09.13.18		
31 00 00		ASTM D6938	Х			Smith Emery	Х		09.13.18		
31 00 00		ASTM D6938	Х			Smith Emery	Х		09.13.18		
31 00 00		ASTM D6938	Х			Smith Emery	Х		09.28.18		
31 00 00		ASTM D6938	Х			Smith Emery	Х		09.28.18		
31 00 00		ASTM D6938	Х			Smith Emery	Х		09.28.18		
31 00 00		ASTM D6938	Х			Smith Emery	Х		09.28.18		
31 00 00	1	ASTM D6938	Х			Smith Emery	Х		09.28.18		
31 00 00		ASTM D6938	X			Smith Emery	Х		09.28.18		
31 00 00		ASTM D6938	X			Smith Emery	Х		09.28.18		
31 00 00		ASTM D6938	X			Smith Emery	Х		09.28.18		
31 00 00	1	ASTM D6938	X			Smith Emery	X		09.28.18		

CONTRACT NUMBER	CONTRACT NUMBER N62473-12-D-2005		PROJEC	CT TITLE	AND LOCATION					CONTRACTOR	
N	62473-12-[	D-2005			Remedial A	ction In Parcel D	-1 (Phas	e II)		APTI	M Federal Services
SPECIFICATION SECTION AND	ITEM		APPR	EDITED/ ROVED AB			OF 1	ATION		DATE FORWARDED	
PARAGRAPH NUMBER	OF	TEST DESCRIPTED	YES	NO	SAMPLED BY	TESTED BY	ON	OFF	DATE COMPLETED	TO CONTR. OFF.	DEMARKS
31 00 00	WORK	ASTM D6938	X	NO	SAMPLED BY	Smith Emery	SITE	SITE	09.28.18	CONTR. OFF.	REMARKS
31 00 00		ASTM D6938	X			Smith Emery	X		09.28.18		
31 00 00		ASTM D6938	X			Smith Emery	X		09.28.18		
31 00 00		ASTM D6938	X			Smith Emery	X		09.28.18		
31 00 00		ASTM D6938	X			Smith Emery	X		09.28.18		
31 00 00		ASTM D6938	X			Smith Emery	X		09.28.18		
31 00 00		ASTM D6938	X			Smith Emery	X		09.28.18		
31 00 00		ASTM D6938	X			Smith Emery	X		09.28.18		
31 00 00		ASTM D6938	X			Smith Emery	X		09.28.18		
31 00 00	1	ASTM D6938	X			Smith Emery	X		09.28.18		
31 00 00		ASTM D6938	X			Smith Emery	X		09.28.18		
32 10 00		ASTM D6938	X			Smith Emery	X		10.25.18		Agg Base Compaction
32 10 00		ASTM D6938	X			Smith Emery	X		10.25.18		rigg base compaction
32 10 00		ASTM D6938	X			Smith Emery	X		10.25.18		
32 10 00		ASTM D6938	X			Smith Emery	X		10.25.18		
32 10 00		ASTM D6938	X			Smith Emery	X		10.25.18		
32 10 00		ASTM D6938	X			Smith Emery	X		10.25.18		
32 10 00		ASTM D6938	X			Smith Emery	X		10.25.18		
32 10 00		ASTM D6938	X			Smith Emery	X		10.25.18		
32 10 00		ASTM D6938	X			Smith Emery	X		10.25.18		
32 10 00		ASTM D6938	X			Smith Emery	Х		10.25.18		
32 10 00		ASTM D6938	X			Smith Emery	Х		10.25.18		
32 10 00		ASTM D6938	X			Smith Emery	Х		10.25.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		10.25.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		10.25.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		10.25.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		10.25.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		10.25.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		10.25.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		10.25.18		

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CONTRACT NUMBER	ONTRACT NUMBER N62473-12-D-2005			T TITLE	AND LOCATION					CONTRACTOR	
N	62473-12-1	D-2005			Remedial Ad	ction In Parcel D-	·1 (Phas	e II)		APTIN	l Federal Services
SPECIFICATION SECTION AND	ITEM		APPR	DITED/ OVED AB			OF 1	ATION TEST		DATE FORWARDED	
PARAGRAPH NUMBER	OF WORK	TEST REQUIRED	YES	NO	SAMPLED BY	TESTED BY	ON SITE	OFF SITE	DATE COMPLETED	TO CONTR. OFF.	REMARKS
32 10 00	Workit	ASTM D6938	X	110		Smith Emery	X	OIIL	10.25.18	GOITHLE GITT	KEMAKKO
32 10 00		ASTM D6938	X			Smith Emery	Х		10.25.18		
32 10 00		ASTM D6938	X			Smith Emery	Х		10.25.18		
32 10 00		ASTM D6938	X			Smith Emery	Х		10.25.18		
32 10 00		ASTM D6938	X			Smith Emery	Х		10.25.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		10.25.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.01.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.01.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.01.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.01.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.01.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.01.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.01.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.01.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.01.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.01.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.01.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.01.18		
32 10 00		ASTM D6938	Х			Smith Emery	Χ		11.01.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.01.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.01.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.01.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.01.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.01.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.01.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.01.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.01.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.01.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.01.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.01.18		

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CONTRACT NUMBER	ONTRACT NUMBER N62473-12-D-2005		PROJEC	T TITLE	AND LOCATION					CONTRACTOR	
N	62473-12-[	D-2005			Remedial A	ction In Parcel D	-1 (Phas	e II)		APTI	M Federal Services
SPECIFICATION SECTION AND PARAGRAPH	ITEM OF			DITED/ OVED AB				ATION TEST OFF	DATE	DATE FORWARDED TO	
NUMBER	WORK	TEST REQUIRED	YES	NO	SAMPLED BY	TESTED BY	SITE	SITE	COMPLETED	CONTR. OFF.	REMARKS
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.01.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.02.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.02.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.02.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.02.18		
32 10 00		ASTM D6938	Х	-		Smith Emery	Х		11.02.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.02.18		
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32 10 00		ASTM D6938	Х			Smith Emery	Х		11.02.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.02.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.02.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.02.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.02.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.02.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.02.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.02.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.02.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.02.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.02.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.02.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.02.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.02.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.02.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.02.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.02.18		
32 10 00		ASTM D6938	Х			Smith Emery	Х		11.02.18		
32 10 00		ASTM D 1561 & ASTM D2726	Х		Smith Emery	Smith Emery		Х	11.13.18		Asphalt Testing
32 10 00		CTM 309	Х		Smith Emery	Smith Emery		Х	11.16.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.06.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.06.18		

CONTRACT NUMBER	2		PROJEC	CT TITLE	AND LOCATION					CONTRACTOR	
Ne	62473-12-D	D-2005			Remedial Ad	ction In Parcel D-	·1 (Phas	e II)		APTIM	M Federal Services
SPECIFICATION SECTION AND	ITEM		APPR	EDITED/ ROVED AB			OF 1	ATION TEST		DATE FORWARDED	
PARAGRAPH	OF		\/T0		044515557		ON	OFF	DATE	TO	D5144D1/0
NUMBER 32 10 00	WORK	ASTM D2950	YES	NO	SAMPLED BY	TESTED BY	SITE	SITE	COMPLETED	CONTR. OFF.	REMARKS
			X			Smith Emery			11.06.18		
32 10 00		ASTM D2950	X			Smith Emery	X		11.06.18		
32 10 00		ASTM D2950	X			Smith Emery	X		11.06.18		
32 10 00		ASTM D2950	X			Smith Emery	Х		11.06.18		
32 10 00		ASTM D2950	X			Smith Emery	Х		11.06.18		
32 10 00		ASTM D2950	X			Smith Emery	Х		11.06.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.06.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.06.18		
32 10 00		ASTM D2950	X			Smith Emery	Х		11.06.18		
32 10 00		ASTM D2950	X			Smith Emery	Х		11.06.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.06.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.06.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.06.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.06.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.06.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.06.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.06.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.06.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.06.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.06.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.06.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.06.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.06.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.06.18		
32 10 00		ASTM D2950	X			Smith Emery	Х		11.06.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.06.18		
32 10 00		ASTM D2950	X			Smith Emery	Х		11.06.18		
32 10 00		ASTM D2950	X			Smith Emery	Х		11.06.18		
32 10 00		ASTM D2950	X			Smith Emery	X		11.06.18		
32 10 00		ASTM D2950	X			Smith Emery	X		11.06.18		

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CONTRACT NUMBER	?		PROJEC	CT TITLE	AND LOCATION					CONTRACTOR	
Ne	62473-12-0	D-2005			Remedial Ad	ction In Parcel D-	·1 (Phas	e II)		APTIM	// Federal Services
SPECIFICATION SECTION AND	ITEM		APPR	EDITED/ ROVED AB			OF 1	ATION TEST		DATE FORWARDED	
PARAGRAPH	OF		\/T0		044515557		ON	OFF	DATE	TO	DE144.DV0
NUMBER 32 10 00	WORK	TEST REQUIRED	YES	NO	SAMPLED BY	TESTED BY	SITE	SITE	COMPLETED	CONTR. OFF.	REMARKS
		ASTM D2950	X			Smith Emery	X		11.06.18		
32 10 00		ASTM D2950	X			Smith Emery	X		11.06.18		
32 10 00		ASTM D2950	X			Smith Emery	X		11.06.18		
32 10 00		ASTM D2950	X			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	X			Smith Emery	X		11.07.18		
32 10 00		ASTM D2950	X			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	X			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	X			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	Х			Smith Emery	X		11.07.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	X			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	X			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	X			Smith Emery	X		11.07.18		

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CONTRACT NUMBER	ONTRACT NUMBER  N62473-12-D-2005		PROJEC	T TITLE	AND LOCATION					CONTRACTOR	
N	62473-12-1	D-2005			Remedial Ad	ction In Parcel D	-1 (Phas	e II)		APTIN	A Federal Services
SPECIFICATION SECTION AND PARAGRAPH	ITEM OF		APPR	EDITED/ ROVED AB				ATION TEST OFF	DATE	DATE FORWARDED TO	
NUMBER	WORK	TEST REQUIRED	YES	NO	SAMPLED BY	TESTED BY	SITE	SITE	COMPLETED	CONTR. OFF.	REMARKS
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.07.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.09.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.09.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.09.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.09.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.09.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.09.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.09.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.09.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.09.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.09.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.09.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.09.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.09.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.09.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.09.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.09.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.09.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.09.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.09.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.09.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.09.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.09.18		

4296/4 (9/98)

CONTRACT NUMBER	₹		PROJEC	T TITLE	AND LOCATION					CONTRACTOR	
N	62473-12-1	D-2005			Remedial A	ction In Parcel D	-1 (Phas	e II)		APTIN	// Federal Services
SPECIFICATION SECTION AND PARAGRAPH	ITEM OF		APPR	EDITED/ ROVED AB				ATION TEST	DATE	DATE FORWARDED TO	
NUMBER	WORK	TEST REQUIRED	YES	NO	SAMPLED BY	TESTED BY	SITE	SITE	COMPLETED	CONTR. OFF.	REMARKS
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.09.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.09.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.09.18		
32 10 00		AASHTO T 30	Х		Smith Emery	Smith Emery		Х	11.20.18		
32 10 00		AASHTO T 30	Х		Smith Emery	Smith Emery		Х	11.20.18		
32 10 00		AASHTO T 30	Х		Smith Emery	Smith Emery		Х	11.20.18		
32 10 00		AASHTO T 30	Х		Smith Emery	Smith Emery		Х	11.20.18		
32 10 00		AASHTO T 30	Х		Smith Emery	Smith Emery		Χ	11.20.18		
32 10 00		AASHTO T 30	Х		Smith Emery	Smith Emery		Х	11.20.18		
32 10 00		AASHTO T 30	Х		Smith Emery	Smith Emery		Х	11.20.18		
32 10 00		AASHTO T 30	Х		Smith Emery	Smith Emery		Χ	11.20.18		
32 10 00		AASHTO T 30	Х		Smith Emery	Smith Emery		Χ	11.20.18		
32 10 00		AASHTO T 30	Х		Smith Emery	Smith Emery		Χ	11.20.18		
32 10 00		AASHTO T 30	Х		Smith Emery	Smith Emery		Х	11.20.18		
32 10 00		AASHTO T 30	Х		Smith Emery	Smith Emery		Χ	11.20.18		
32 10 00		AASHTO T 30	Х		Smith Emery	Smith Emery		Χ	11.20.18		
32 10 00		AASHTO T 30	Х		Smith Emery	Smith Emery		Х	11.20.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х	1	11.13.18		

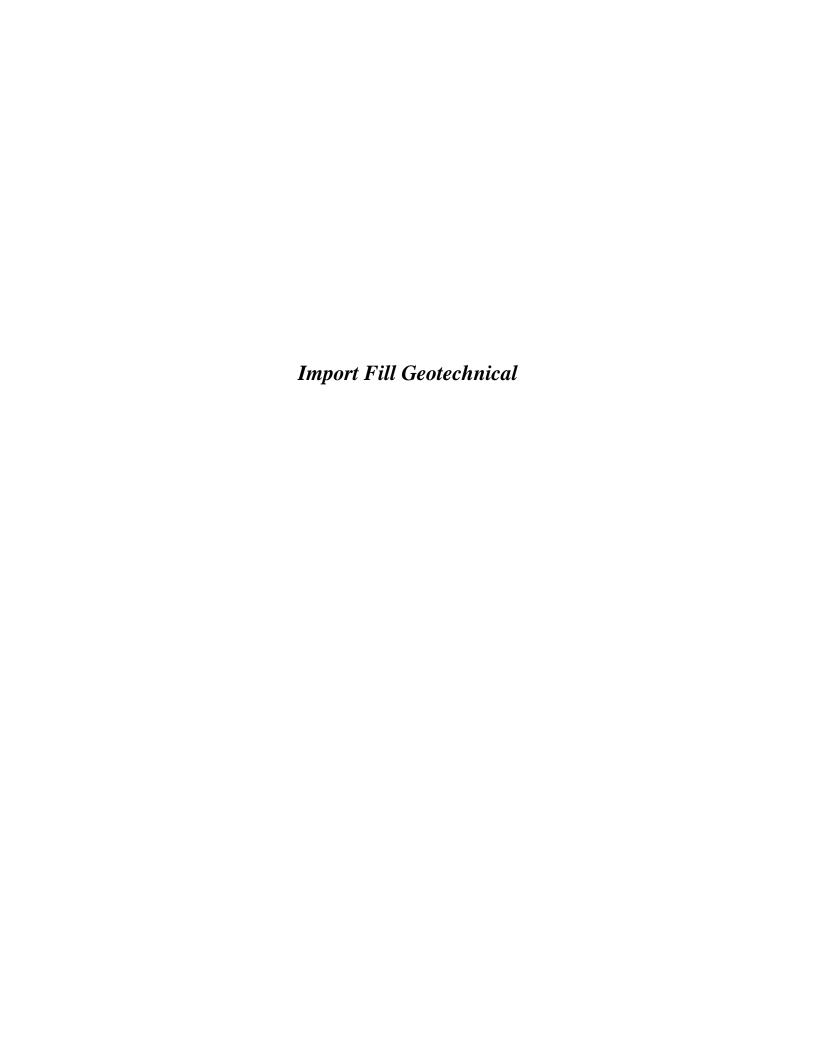
4296/4 (9/98) SHEET 8

CONTRACT NUMBER	ONTRACT NUMBER N62473-12-D-2005		PROJEC	CT TITLE	AND LOCATION					CONTRACTOR	
N	62473-12-1	D-2005			Remedial A	ction In Parcel D	-1 (Phas	e II)		APTIN	I Federal Services
SPECIFICATION SECTION AND PARAGRAPH	ITEM OF		APPR	EDITED/ ROVED AB				ATION TEST OFF	DATE	DATE FORWARDED TO	
NUMBER	WORK	TEST REQUIRED	YES	NO	SAMPLED BY	TESTED BY	SITE	SITE	COMPLETED	CONTR. OFF.	REMARKS
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		ASTM D2950	Х			Smith Emery	Х		11.13.18		
32 10 00		AASHTO T 30	Х		Smith Emery	Smith Emery		Х	11.20.18		
32 10 00		AASHTO T 30	Х		Smith Emery	Smith Emery		Х	11.20.18		
32 10 00		AASHTO T 30	Х		Smith Emery	Smith Emery		Х	11.20.18		
32 10 00		AASHTO T 30	Х		Smith Emery	Smith Emery		Х	11.20.18		
32 10 00		AASHTO T 30	Х		Smith Emery	Smith Emery		Х	11.20.18		
32 10 00		AASHTO T 30	Х		Smith Emery	Smith Emery		Х	11.20.18		
32 10 00		AASHTO T 30	Х		Smith Emery	Smith Emery		Х	11.20.18		
32 10 00		AASHTO T 30	Х		Smith Emery	Smith Emery		Х	11.20.18		

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CONTRACT NUMBER			PROJEC	T TITLE	AND LOCATION					CONTRACTOR			
Ne	52473-12-I	D-2005			Remedial Ad	tion In Parcel D-	1 (Phas	e II)		APTII	<b>APTIM Federal Services</b>		
SPECIFICATION SECTION							LOCA	ATION		DATE FORWARDED			
PARAGRAPH NUMBER	OF WORK	TEST REQUIRED	YES	AB NO	SAMPLED BY	TESTED BY	ON SITE	OFF SITE	DATE COMPLETED	TO CONTR. OFF.	REMARKS		
32 10 00		AASHTO T 30	X			Smith Emery	02		11.20.18	33,111,11	T.Z.III/ U.T.C		
32 10 00		AASHTO T 30	Х		Smith Emery	Smith Emery		Х	11.20.18				

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An Independent Commercial Testing Laboratory

1940 Oakdale Avenue San Francisco, CA 94124 (415) 642-7326 Fax (415) 642-7055 791 East Washington Blvd. Los Angeles, California 90021 (213) 749-3411 Fax (213) 746-7228

July 8, 2016

SESF File No. 69995-1 SESF Report No. 16-272

CB&I Federal Services, LLC 1230 Columbia Street, Suite 1200 San Diego, CA 92101

Attention: Mr. Sam Hopstone

RE: Parcel D-1, CBI# 149831

SUBJECT: Report of Tests

TEST STANDARDS: CTM 301 (R-Value)

SOURCE: One sample of Brown Silty Sand with Clay from Bernard Pile was collected by a CB&I

representative and delivered to our laboratory on June 27th, 2016.

### REPORT OF TESTS

In compliance with your request, we have conducted the subject tests with the results presented below.

Sample Number	Description	Source
06-27-16-01	Brown Silty Sand with Clay	Bernard Pile

### **CTM 301 (R-Value)**

78

Respectfully submitted, SMITH-EMERY SAN FRANCISCO

Digitally signed by Pat Morrison
DN: cn=Pat Morrison, o=Smith-Emery SF, ou=SESF
GeoServices, email=pmorrison@smithemerysf.com, c=US
Date: 2016.07.08 15:14:45 - 07:00'

Patrick Morrison

PATRICK MORRISON, P.G. #7174, C.E.G. #2643

GeoServices Manager

Attachments: CTM 301 Detailed Report



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### (CAL TEST 301)

SE JOB #: 69995-1 Date Sample: 7/1/2016 HPNS Parcel D-1 Project:

Source: client

SOIL TYPE: Brown Silty Sand with Clay

Lab No.; 160706 Location: Parcel D-1

SPECIMEN	Α	В	С
EXUDATION PRESSURE (psi)	450	300	200
PREPARED WEIGHT (g)	1150	1150	1150
FINAL WATER ADDED (g)	0	10	20
WEIGHT, SOIL & MOLD (g	3250	3260	3270
WEIGHT, MOLD (g)	2100	2094	2074
HEIGHT (in)	2.51	2.51	2.5
EXPANSION DIAL	2	2	2
STABILOMETER @ 1000 lb	70	68	36
STABILOMETER @ 2000 lb	107	104	64
TURNS DISPLACEMENT	6.5	4.7	4
(2.5/d)*((Pv/Ph)-1)+1	1.19	1.29	1.94
100/Above	84	78	52
R-VALUE TEST	84	78	52

VALUE AT 300 PSI **EXUDATION PRESSURE:** 

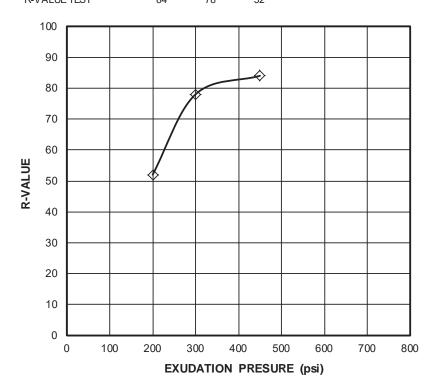
R-VALUE:

Corrected:

78

**R-VALUE BY** EXPANSION:

78



Moisture: 6.50%	R-VALUE TEST
	Smith-Emery Laboratory



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**Date** 

**Received:** 8/4/2016 **Project:** 69995-1

Sample

#: 1/1/1900 Location: HPNS

Sample

 ID:
 4/4/2340
 Boring #:
 NA

 Source:
 Parcel D-1
 Depth:
 NA

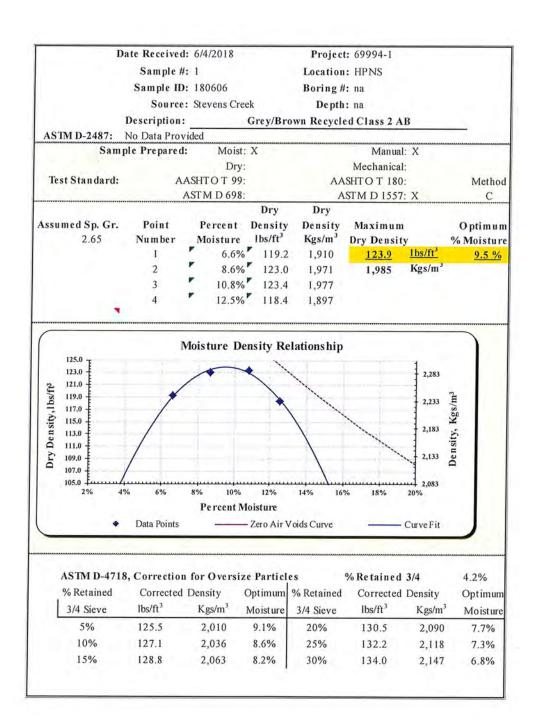
Wet Weight of Soils +
Pan
Dry Weight of Soils +
Pan
Weight of Pan
Weight of Moisture
Dry Weight of Soils
% Moisture
8.9%



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October 4, 2016

SESF File No. 69995-1 SESF Report No. 16-427

CB&I Federal Services, LLC 1230 Columbia Street, Suite 1200 San Diego, CA 92101

Attention: Mr. Sam Hopstone

RE: Parcel D-1, CBI# 149831

SUBJECT: Report of Tests

TEST STANDARDS: ASTM D1557 (Modified Proctor)

SOURCE: Two samples of Dark Brown AB from Brisbane were collected by a CB&I

representative and delivered to our laboratory on September 28<sup>th</sup>, 2016.

### REPORT OF TESTS

In compliance with your request, we have conducted the subject tests with the results presented below.

Sample Numb	er Description	Source	
09-28-16-01	Dark Brown AB	Brisbane	
09-28-16-02	Dark Brown AB	Brisbane	

### **ASTM D1557 (Modified Proctor)**

Please see the attached.

Respectfully submitted, SMITH-EMERY SAN FRANCISCO

Patrick Morrison
Pat
Morrison
Morrison

PATRICK MORRISON, P.G. #7174, C.E.G. #2643 Professional Geologist

Certified Engineering Geologist

Attachments: ASTM D1557 Detailed Reports



An Independent Commercial Testing Laboratory

1940 Oakdale Avenue San Francisco, CA 94124 (415) 642-7326 Fax (415) 642-7055 791 East Washington Blvd. Los Angeles, California 90021 (213) 749-3411 Fax (213) 746-7228

Sample #: 1 Location: Brisbane
Sample ID: 160932 Boring #: NA
Source: ABC1 Depth: NA

Description: Dark Brown AB

ASTM D-2487: No Data Provided

Sample Prepared: Moist: X Manual: X

Dry: Mechanical:

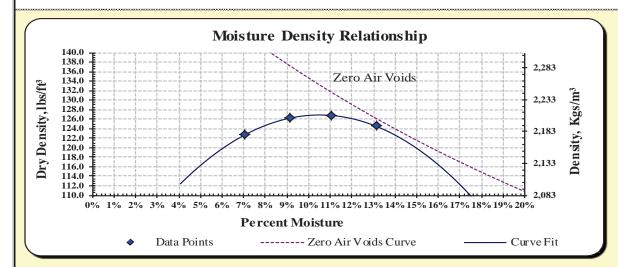
Dave

 Test Standard:
 AASHTO T 99:
 AASHTO T 180:
 Method

 ASTM D 698:
 ASTM D 1557: X
 C

Dwy

ı				Diy	Diy		
	Assumed Sp. Gr.	Point	Percent			Maximum	Optimum
	2.75	Number				Dry Density	% Moisture
		1	7.1%			126.9 lbs/f	10.5 %
		2	9.1%			2,032 Kgs/	m <sup>3</sup>
		3	11.1%	126.7	2,030		
		4	13.1%	124.5	1,995		



<b>ASTM D-4718</b>	3, Correctio	n for Overs	ize Particl	es	% R	etained 3/4	4.7%
% Retained	Corrected	d Density	Optimum	% Retained	Corrected	Density	Optimum
3/4" Sieve	lbs/ft <sup>3</sup>	Kgs/m <sup>3</sup>	Moisture	3/4" Sieve	lbs/ft <sup>3</sup>	Kgs/m <sup>3</sup>	Moisture
<u>5%</u>	128.5	2,059	<u>10.0%</u>	20%	133.9	2,144	8.5%
10%	130.3	2,087	9.5%	25%	135.7	2,174	8.0%
15%	132.0	2,115	9.0%	30%	137.6	2,205	7.5%
			•	•			



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**Date Received:** 9/28/2016 **Project:** 69995-1

Sample #: 2 Location: Brisbane
Sample ID: 160932 Boring #: NA
Source: ABC2 Depth: NA

Description: Dark Brown AB

ASTM D-2487: No Data Provided

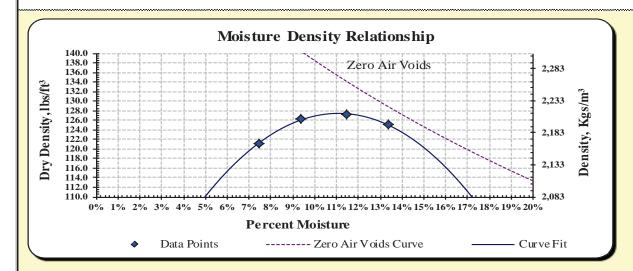
Sample Prepared: Moist: X Manual: X

Dry: Mechanical:

Test Standard: AASHTO T 99: AASHTO T 180: Method

ASTM D 698: ASTM D 1557: X

			$\mathbf{Dry}$	Dry			
Assumed Sp. Gr.	Point	Percent	Density	Density	Maximum		Optimum
2.85	Number	Moisture					% Moisture
		7.4%			127.4	lbs/ft <sup>3</sup>	<u>11.1 %</u>
	2	9.4%	126.3	2,024	2,041	Kgs/m <sup>3</sup>	
	3	11.4%	127.1	2,037			
	4	13.4%	125.1	2,004			



<b>ASTM D-4718</b>	3, Correctio	n for Overs	ize Particl	es	% Re	etained 3/4''	3.9%
% Retained	Corrected	d Density	Optimum	% Retained	Corrected	Density	Optimum
3/4" Sieve	lbs/ft <sup>3</sup>	Kgs/m <sup>3</sup>	Moisture	3/4" Sieve	lbs/ft <sup>3</sup>	Kgs/m <sup>3</sup>	Moisture
<u>5 %</u>	<u>129.3</u>	<u>2,071</u>	<u>10.6%</u>	20%	135.1	2,164	9.0%
10%	131.2	2,101	10.1%	25%	137.2	2,197	8.5%
15%	133.1	2,132	9.5%	30%	139.3	2,231	7.9%
			•	•			



SECO Job No: 69994-1

### **INSPECTION REPORT**

Report No.: INSP-24

Date: 10/12/2018

To: CB&I FEDERAL SERVICES, LLC ACCOUNTS PAYABLE 1230 COLUMBIA STREET, STE. 120 SAN DIEGO, CA 92101

Distributed To:

EMAIL: CB & I FEDERAL SERVICES

Subject: GEOTECHNICAL SERVICES PARCEL

**HUNTERS POINT, CA** 

GEOTECH. SERVICES PARCEL E-2 CONTRACT #: CBI#500506

Attached are inspection reports for the week ending 9/14/2018 for the subject project:

Report By Report Dated Report Title

HAWVICHORST, ANDREW 09/13/2018 Daily Inspection Report for 9/13/2018

N.E.	SMITH-EMERY SAN FRANCISCO DSA File #											
	1940 Oakdale Ave, San Francisco, CA 94124 DSA Appl. #											
( P	.82	5) 642-7			, 0, 117 11	<b>~</b> (	_		D#		•	•
FRANC	. <del>6</del> 9/ `	\#56					•		it #			•
		11130	-		O3 (D) ( O5		D:(400 D)					
P		e.c =		DAILY - C						- \.	<del></del>	
Project 3	Name: _	GIZOT	BCHN 1105	ITCAL - SIE	eu: Pap	CKL F		D	ate: 91	13/18		
Project A	Address:	HOM	1 12K2	Pr.	<u> </u>		500506	SESF Jo	ob#_ <b>69</b>	1994-	<u>· 1</u>	
				PAD ART		MEST				<del></del>		······
				MPACTI	011- TB	7272H	ص					
Docume	ent(s) Re	viewed:			·							
Test #	Soil		Loca	tion	Elev.	% Moist	Densit	y (pcf)	% Rel. Co	mpaction	Pass	Fail
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		<b>PSY</b>		ARBA# 1								
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				The Requirements o							•	-

Work Not In Compliance:

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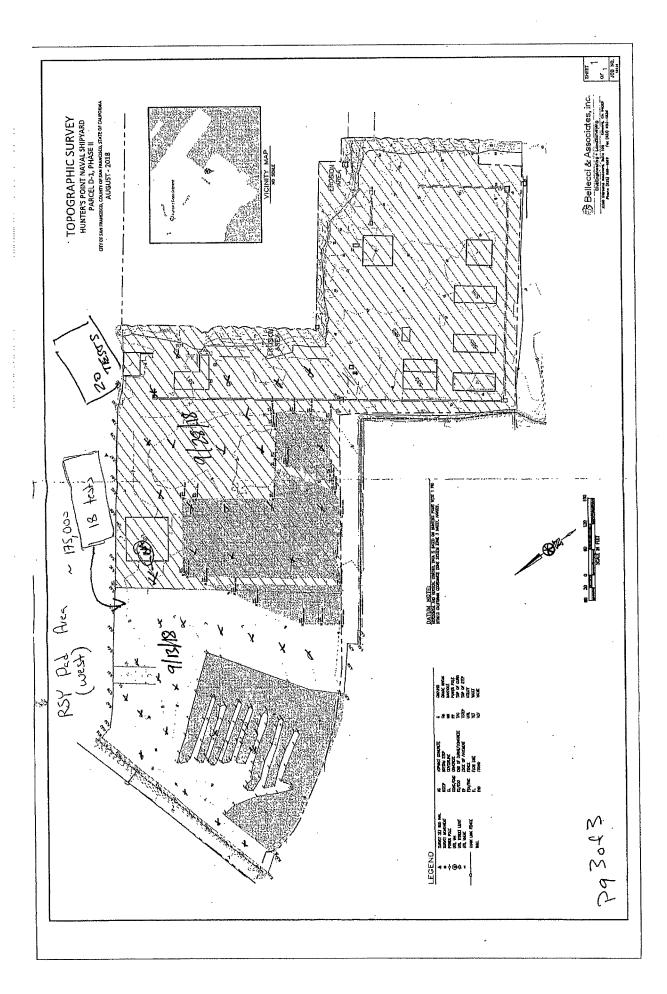
USZ-DATA COLLECTED.

	·
Attachments: None	Name: AHVIRW HAWVICHORST
CC: DSA Regional Office Project Architect	Signature:
Structural Engineer Project Inspector School District	Certification #:

Notified (Required): \_\_\_\_

# SMITH-EMERY SAN FRANCISCO DSA File #

			le Ave, San Fra 326	ncisco	, CA 9412	24	D	OSHP	ol. # D #			
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			DAILY RECHUTCAL TRES PT.	<u>- CO</u>	MPAC'	TION T	EST RE	PORT	9/	12/18	•	
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	ct Inspecto I District	or			,			2324	1	Page	7 ^	<sub>f</sub> द
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SECO Job No: 69994-1

### **INSPECTION REPORT**

Report No.: INSP-25

Date: 10/12/2018

Distributed To:

EMAIL: CB & I FEDERAL SERVICES

To: CB&I FEDERAL SERVICES, LLC ACCOUNTS PAYABLE 1230 COLUMBIA STREET, STE. 120

Subject: GEOTECHNICAL SERVICES PARCEL

**HUNTERS POINT, CA** 

SAN DIEGO, CA 92101

GEOTECH. SERVICES PARCEL E-2 CONTRACT #: CBI#500506

Attached are inspection reports for the week ending 9/28/2018 for the subject project:

Report ByReport DatedReport TitleHAWVICHORST, ANDREW09/28/2018Daily Inspection Report for 9/28/2018KARIMI, AHMAD F09/28/2018Daily Inspection Report for 9/28/2018

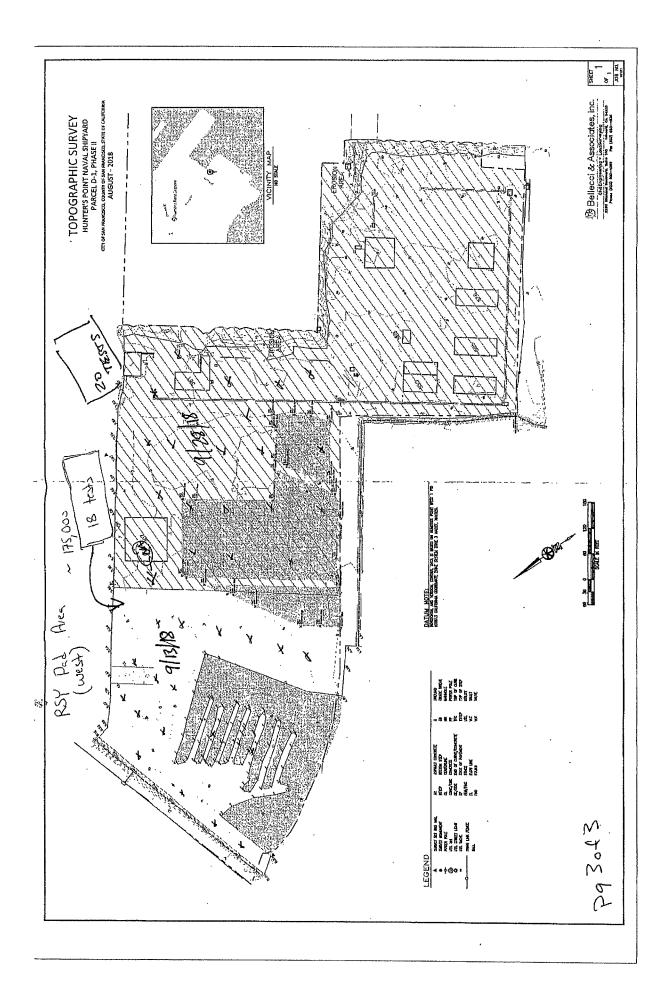
# SMITH-EMERY SAN FRANCISCO 1940 Oakdale Ave, San Francisco, CA 94124

DSA File #	
DSA Appl. #	
OSHPD#	
Permit#	

(415) 642-7326 LEA #56				OSHPD # Permit #									
FRANC	LE.	A #56			~ 4	~~~~	- cm			***************************************	***************************************		
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Project Inspector School District				Em	p. ID:								

DSA File#	
DSA Appl. #	
OSHPD#	•
Permit#	

(* S 1940 Oakdale Ave, San Francisco, CA 94124					OSHPD#						
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		rformed: COUR ACTIO	H-TRS	172HG							
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SECO Job No: 69994-1

#### **INSPECTION REPORT**

Report No.: INSP-28

Date: 11/28/2018

Distributed To:

EMAIL: CB & I FEDERAL SERVICES

To: CB&I FEDERAL SERVICES, LLC ACCOUNTS PAYABLE 1230 COLUMBIA STREET, STE. 120 SAN DIEGO, CA 92101

Subject: GEOTECHNICAL SERVICES PARCEL

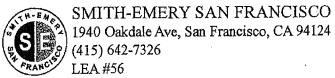
**HUNTERS POINT, CA** 

GEOTECH. SERVICES PARCEL E-2 CONTRACT #: CBI#500506

Attached are inspection reports for the week ending 10/26/2018 for the subject project:

Report By Report Dated Report Title

HAWVICHORST, ANDREW 10/25/2018 Daily Inspection Report for 10/25/2018



DSA File #	
DSAAppl.#	
OSHPD#	
Permit#	***************************************

( g S ]	8/ (415) 642-7326					OSHPD#								
FRANCIS LEA #56				Permit #										
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DSA File#	
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OSHPD#	
Permit#	

	1940 Oakdale Ave, San Francisco, CA 94124 DSA Appl. #										
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	ol District		•		Emp	p. ID:3	- # 4 1		rage	_= (	<i>,</i>

SECO Job No: 69994-1

#### **INSPECTION REPORT**

Report No.: INSP-29

Date: 11/28/2018

To: CB&I FEDERAL SERVICES, LLC ACCOUNTS PAYABLE 1230 COLUMBIA STREET, STE. 120 SAN DIEGO, CA 92101

Distributed To:

EMAIL: CB & I FEDERAL SERVICES

Subject: GEOTECHNICAL SERVICES PARCEL

**HUNTERS POINT, CA** 

GEOTECH. SERVICES PARCEL E-2 CONTRACT #: CBI#500506

Attached are inspection reports for the week ending 11/2/2018 for the subject project:

Report By Report Dated Report Title

HAWVICHORST, ANDREW 11/02/2018 Daily Inspection Report for 11/1/2018 thru 11/2/2018

THE WARPY STAFFRANCE	SMITH-EMERY SAN FRANCISCO 1940 Oakdale Ave, San Francisco, CA 94124 (415) 642-7326 LEA #56
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DSA File#	
DSAAppl.#	
OSHPD#	·
Permit#	

d	194	0 Oakdale Ave, San Fran	DSA Appl. # OSHPD #							
(415) 642-7326 LEA #56							t#			
	ייונו י		COMBACT	ריור/אז ידיו	ולול ידים:					
		GEOTIECHNICAL-	- COMPACT	CE 01	201 VE	OK1	to: 11/1	/\S		
Project I	Name: _	HUNTRES PT.	51212U . 17.1 ·	. 015 (7)	30031	Da Da	# <b>69</b> 4	794-1	<del></del>	
Project A	Address:	tion: PARCKL D.	. 1		I	SEST JUI	) #		<del></del>	
inspecti	OII LOCA	rformed: COMPACT	TON TRY	TEN1_		***************************************				
			*CM-11E.	1-4-0						
Docume	enus) Re	viewed:					1 0/ 5/16			
Test #	Soil Type #	Location	Elev.	% Moist	Densit Dry	y (pcf) Max	% Rel. Co	Spec.	Pass	Fail
9		PEF! MAP		9.1	129.4	134.4	96	95	印	
62		QUATRALIT		9.9	130.1		94	95	X	
63		DATED 11/1		MOS	131.4		92	95	A	
ou		, Filtish, AGG		C1.6	129.6		95	95	<b>₩</b>	
05		BAFE		4.8	130.2		97	95	N.	
06		2		10.2	1314		92	95	Z	
07				9,8	129.7		96	95	<del> </del>	
වර්				9.3	131.6		93	95	<u>{</u>	
05				10.3	128.4		95	95		
10				9.6	199.6	ļļ	96	95	A	
11				4.8	1314		93	95	1	
12				10.2	129.6	1	96	95	12	
13		V CONT: PG. 2		89	1317		97	95		
Soil Type #		Soil Type / Desc	ription .		USCS Sol	il Class	Optimun Moisture (		Dry De (pcf)	ensity
<b>4</b> .	6204	VERBENS. CLZDIS					7.2	1	3ce.c	4
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Work Inspe	cted 1	IET 🔲 DID NOT MEET The Requir	ements of the 🔲 DS	a 🗌 oshpi	JURISD	ICTION Appro	ved Documen	ts 🔲 N/A		
Material 5	ZI WAS [7]	WAS NOT Sampled and Tested in A	cordance with the Red	uirements of	DSA 🗆	OSHPD 🔏	JURISDICTION	Approved Doc	uments	□ N/A
Material Te	stori 🖊 M	ET DID NOT MEET The Requirer	nents of the DSA	□ oshpd.[7	JURISDICTI	ON Approved	Documents	□ N/A		
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	xural Eng			Certificat						
	Project Inspector School District Emp. ID: 2324 Page 1 of						of 👱			

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	(415) 642-7326						OSHPD#					
FRANC	LEA #56						Permi	t#				
			DAILY -	COMPAC'	TION T	EST REI	PORT		<del>, , , , , , , , , , , , , , , , , , , </del>			
Project 1	Name: 🤇	0807	rchateal-srd	W: H.PT. C	ele se	9020	Da	te: <u>U/</u>	1/18		A	
Project A	Address:	HO	hurrs poemi		·	S	SESF Jol	) # <u>690</u>	<del>رسر ۱۰</del>			
Inspecti	on Loca	tion: _	PARCEL D-1									
			ed: COMPACTION	OH-TK243	J-16							
Docume	ent(s) Re	viewe	3G.		<del></del>	D 1	- /0	I IV Dal Ca	monoction			
Test #	Soil Type#		Location	Elev.	% Moist	Densit Dry	у (рст) Мах	"Field	mpaction Spec.	Pass	Fail	
		COL	TEHURO.					. ,				
14		P9	1		9.3	131.6	134,4	92	95	<b>A</b>		
15					89	129.2		96	95	K	므	
lb					9.1	131.6		97	95	K		
13					9.6	130.4		92	95	Ŋ		
18			) F	THUSH	10.2	1287		95	95	Z		
ાવ			7	066	9.8	130.4		97	95	K	ᆜᆜ	
20				BUCK	9.6	131.6		97	95	4		
21					8.9	129,2		96	95	Ø		
22			/		9.1	130.2	·	93	95	K	빌	
23			/		9.4	128.4		95	95	K		
24			l l		9.7	131,3		93	95			
25					Gilo	130.4		वर्	95	12		
Soil Type#		·	Soil Type / Descr	ription		USCS Soi	l Class	Optimun Moisture (		Dry De (pcf)	ensity	
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	GRAY	VIE	GIN. CLZDIS					7,2	13स.स			
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Work M	was 🗆 w	AS NOT	Inspected in Accordance with	the Requirements o	of 🔲 DSA 🗌	OSHPD 📈	JURISDICTIO	N Approved Do	ocuments 🗌	N/A		
Minrk Inche		AFT 🖂	DID NOT MEET The Require	ments of the 🔲 D	ISA 🗌 OSHP	D 🗷 JURISD	ICTION Appr	oved Documen	ts 🔲 N/A			
Material D	Nwas I	אוא אור	T Sampled and Tested in Acc	cordance with the Re	guirements of	☐ DSA ☐	OSHPD 🗷	JURISDICTION	Approved Doo	uments	□ N/A	
Managina To		[] r	OID NOT MEET The Requirem	ents of the DSA	OSHPD &	JURISDICTI	ON Approved	i Documents [	□ N/A			
										······································		
Work I	Not In C	ompl	iance:	Noti	fied (Requ	iired):						
PS	ELM: D	122	·		·							
Attachr	nents: 1	Vone			1	Name: A	LYPRU	HAWVI	CHORS			
rxua <b>v</b> III.	HOMES,	G. 11.117 /	A MARKET CONTRACTOR OF THE PARTY OF THE PART						 )	/		
CC: DSA	Regional	Office	;						M/1			
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	ctural Eng				Certificat			······································				
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			DAILY - CC	MPAC.	TION TE	EST REI	PORT	¬			
Project 1	Name:	OF STIGE	INTERL-SIREY:						2/18		
Project A	Address:	HUHTIE	rs poent				SESF.	کی # Job#	१००५-।		
Inspection	on Loca	tion; Par	ecre D-1								
Inspection	on(s) Pe	rformed:	COMPACTEDH	- TR51	Dr.6						
-		viewed:									
	Soil					Densit	v (pcf)	% Rel. C	ompaction		
Test #	Type#		Location	Elev.	% Moist	Dry	Max		Spec.	Pass	Fail
01		PEF: UV	tb		9.6	130,2	134.	1 97	95	Z	
62		DATED	11/2		9.8	129.8		96	95	B	
63					9.3	129,7		96	95	Z	
છ્ય		FEA	XBSH. AGG		8.૧	131-3		93	95	Z	
<u>ه۲</u>		BA	XВ5н. Д6С 512		9.4	130.5		43	95	4	
96	.,		<i>,</i> '		1.60	129.4		96	95	¥	
62					4.8	131.2		43	95	<b>2</b>	$\Box$
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ତ୍ର					9.1	128.4		96	95	R	밀
10					વ.પ	131,9		92	95		ᆜ
11.					9.5	130.2		97	95	ᇫ	닠
12		V co	ידי		9.4	129,7		96	95		븰
13		Pe	12	<u> </u>	10.2	131,4		93	95	æ	ᆜᆜ
Soil Type #			Soil Type / Description	)		USCS Soil	Class	Optimur Moisture		Ory De (pcf)	nsity
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	P490	VERGE	11. CL223					7:4	1,3	7,-4	
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Work N	ot In C	ompliance	:	Notifi	ed (Requi	ired):					
	tM : D	•				,					

ASTM: DISSA	· ·
Attachments: None	Name: ANDREW HOWVICHORST
CC: DSA Regional Office Project Architect	Signature:
Structural Engineer	Certification #:
Project Inspector School District	Emp. ID: 2324 Page 1 of 1

Project Inspector

School District

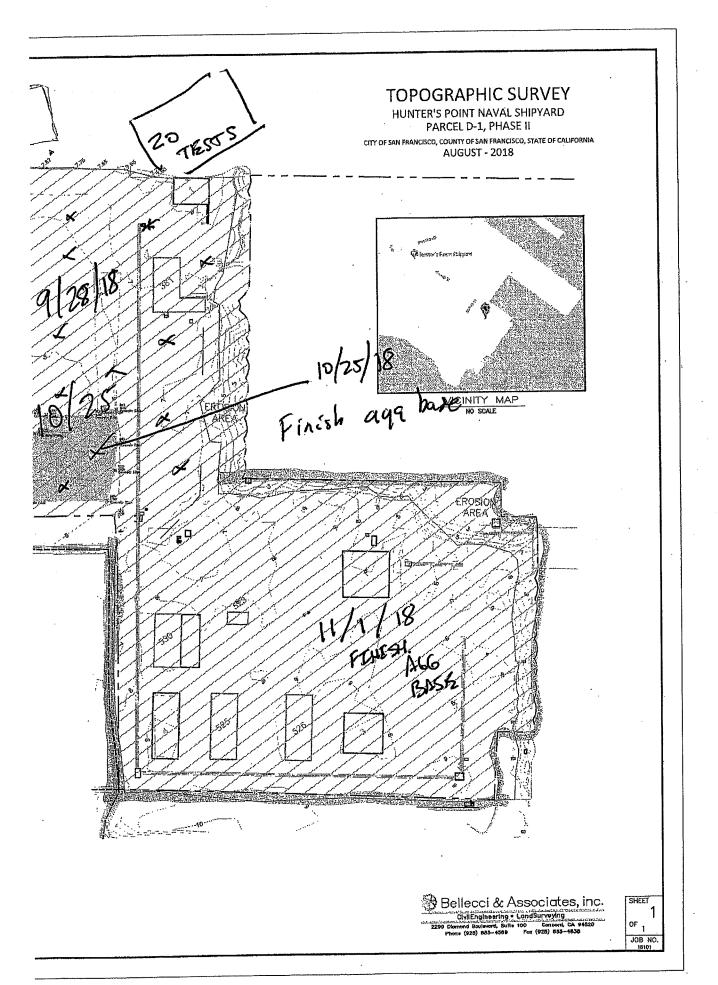
### SMITH-EMERY SAN FRANCISCO

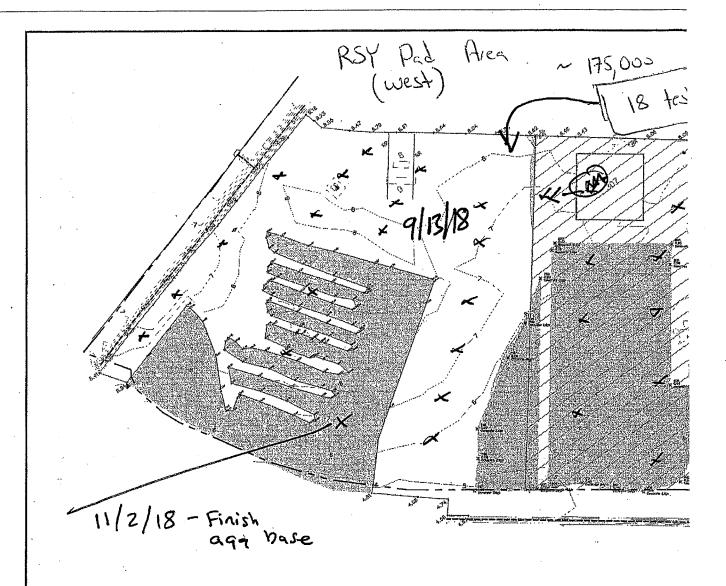
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(S)			2-7326			٠		)#			
FRAN	LEA	¥56					Permi	t#			
			DAILY - CO	)MPAC	TION TI	EST REI	PORT				
Project	Name:	6 Ks	TECHNICOL-SREW	: H.PT.	CB PE	20020	<b>6</b> Da	te: ulz	15		
Project	Address	H	untiers Pothet				SESF Joi	# <u>69</u>	२५५-।		
Inspecti	on Loca	tion:	PARCEL D-1	, , , , , , , , , , , , , , , , , , ,							
Inspecti	ion(s) Pe	rform	ed: COMPACTED	7 - TE	telet	5					
	ent(s) Re										
	Soil		4			Densit	v (pcf)	% Rel, Co	mpaction		
Test #	Type #		Location	Elev,	% Moist	Dry	Max	Field	Spec.	Pass	Fail
	ļ			<del> </del>	<del>                                     </del>						$\Box$
14		Cita	atthurn from		56.5	129.6	134.4	96	95	K	
15	ļ	120	<u> </u>		9.1	131.2	, , , ,	97	95	K	
16		-		-	9.4	1304		93	95	Į.	
17			Fenesh		9.3	1298		96	45	Z	
18			AGG		10.2	131,4		97	95	Z	
15			ማስደሚ የ		4.7	130.8		97	95	Ø	
70					9.6	129.4		96	95	K	
21					9.8	131.6		92	95	日	$\Box$
22					9.3	1294		96	95	4	닏
23					1.01	130,3		97	95	R	닏
24		1		1	۹.6	131,5		<b>41</b>	95	A	닏
25	<u></u>				9.%	129.7		966	95	Z	
Soil Type #			Soil Type / Description	n		USCS Soi	l Class	Optimum Moisture (		Dry De (pcf)	ensity
	ļ									34.4	
	6124	I VE	126th CLZARS					7.2		24,4	1
	ļ										
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			Inspected in Accordance with the Re							N/A	
			DID NOT MEET The Requirements								
			T Sampled and Tested in Accordance							uments	∐ N/A
Material Te	sted 🗷 MI	et 🔲 D	ID NOT MEET The Requirements of	the DSA	OSHPD P	JURISDICTIO	N Approved	Documents _	_] N/A		
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CC: DSA	Regional	Office						B	///	1	
Proje	ect Archite	ct		•	Sign	ature: 🚄	= >		Ge f		
Struc	ctural Engi	neer			Certificat	ion'#:	<i></i>		<u> </u>		

Emp. ID: \_



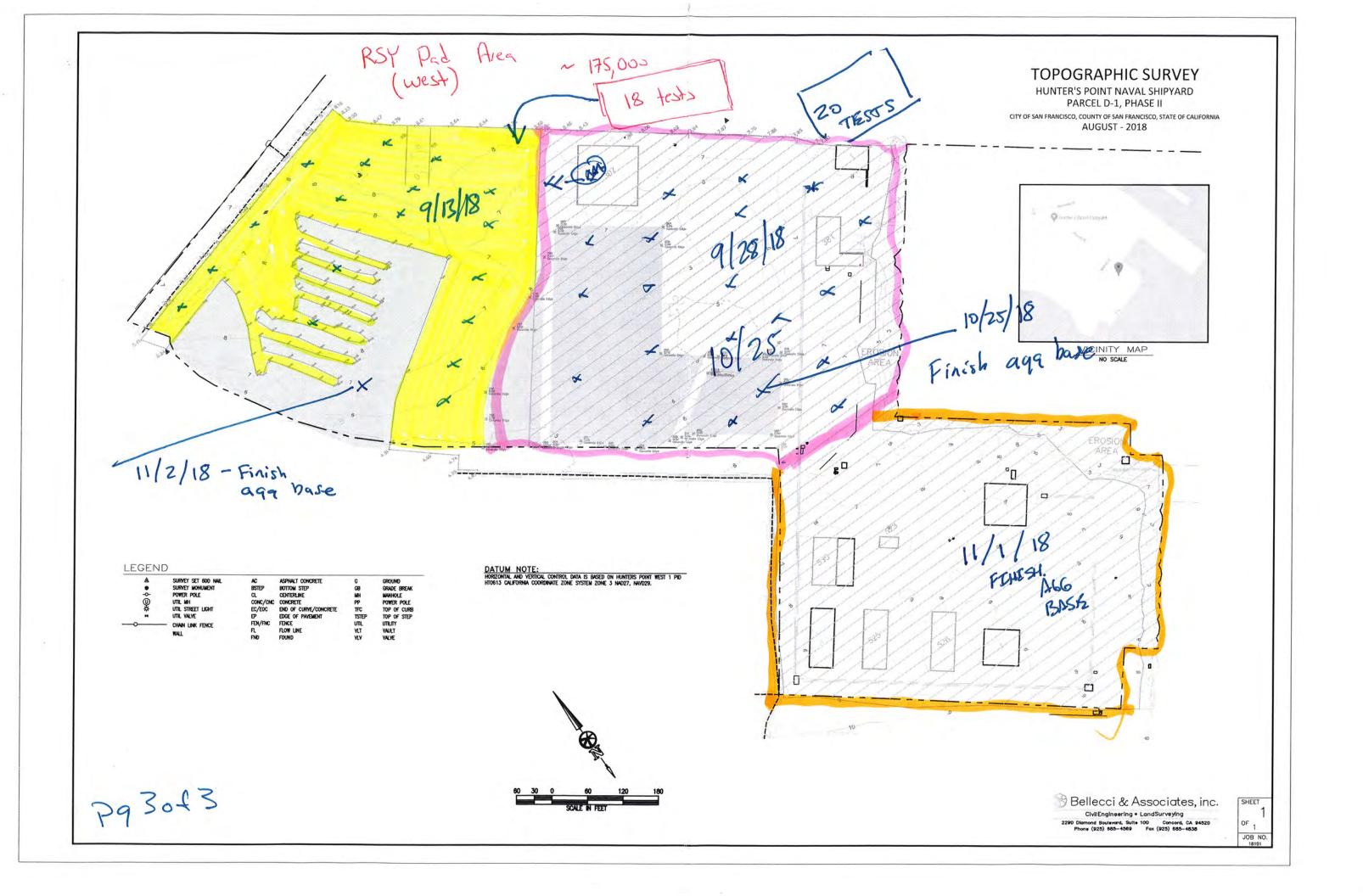


LEGEND					
<b>△ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦</b>	Survey Sct 600 HAL Survey Monument Power Pole Lite, Min Lite, Street Licht Lite, Yalve Cham Link, Fence Wall	AC ISTEP CL CONIC/CNC EC/EDC EP FEN/FINC FL FIND	ASPIANT CONCRETE BOTTOM STEP CEMPERING: CONFORMER ENDE OF CURVE/CONCRETE ENDE OF PAYMENT FENCE ROW LINE FOUND	C CS TELL VITA	CHOWNE CHARLE THE TOP OF CURB TOP OF CURB TOTAL THEIR VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VA VA VALUE VA VA VA VA VA VA VA VA VA VA VA VA VA

DATUM NOTE:
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HTGG13 CALPDRIA COOKDRAYE ZONE SYSTEM ZONE 3 NADZ7, NAVDZ9,



P93043





SECO Job No: 69994-1

#### **INSPECTION REPORT**

Report No.: INSP-30

Date: 12/2/2018

Distributed To:

EMAIL: CB & I FEDERAL SERVICES

To: CB&I FEDERAL SERVICES, LLC ACCOUNTS PAYABLE 1230 COLUMBIA STREET, STE. 120 SAN DIEGO, CA 92101

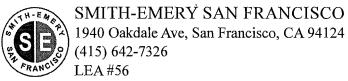
Subject: GEOTECHNICAL SERVICES PARCEL

**HUNTERS POINT, CA** 

GEOTECH. SERVICES PARCEL E-2 CONTRACT #: CBI#500506

Attached are inspection reports for the week ending 11/9/2018 for the subject project:

Report ByReport DatedReport TitleBARNES, MATTHEW11/09/2018Daily Inspection Report for 11/7/2018 thru 11/9/2018HAWVICHORST, ANDREW11/09/2018Daily Inspection Report for 11/6/2018 thru 11/9/2018



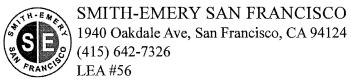
DSA File#	N/A	
DSA Appl. #	N/A	
OSHPD#		
Permit #	N/A	

1940 Oakdale Ave, San Francisco, CA 94	DSA Appl. # <u>N/A</u>
(415) 642-7326	OSHPD# N/A
LEA #56	Permit # N/A
DAILY SPECIAL	INSPECTION REPORT
Project Name: Geotechnical Services Parcel E-2, CE	
Project Address: Hunters Point, San Francisco	SESF Job # 69994-1
Inspection Location: Nuclear Gage correlation	ODOL 300 II
Inspection(s) Performed: Coring	Hot Mix Asphalt - Sampling
Document(s) Reviewed:	
Inspection Report:	
Coring of HMAC pavement as part of nuclear gage of	correlation, alongside SE inspector Andrew H.
	,
,	
Work WAS WAS NOT Inspected in Accordance with the Requirement	
Work Inspected ✓ MET □ DID NOT MEET The Requirements of the □	
	Requirements of DSA OSHPD JURISDICTION Approved Documents N/A
Material Tested  MET DID NOT MEET The Requirements of the Did Did Not Meet and Did Did Not Meet and Did Did Not Meet and Did	SA OSHPU  JURISDICTION Approved Documents N/A
Work Not In Compliance: No	tified (Required)
	Mottheyy Romas I
Attachments:	Name: Matthew Barnes I.
CC: DSA Regional Office	2121
Project Architect	Signature: <u>MB</u> .

Structural Engineer Project Inspector School District

Certification # \_

Emp. ID: 2851 \_\_ Page \_\_\_ of \_\_\_



DSA File#	N/A
DSA Appl. #	N/A
OSHPD#	
Permit #	N/A
REPORT	
Date:	11/9/2018

DAILY SPECIAL INSPEC	TION REPORT
Project Name: Geotechnical Services Parcel E-2, CBI# 50050	6 Date: 11/9/2018
Project Address: Hunters Point, San Francisco	SESF Job # <u>69994-1</u>
Inspection Location: Nuclear Gage correlation	
•	Asphalt - Sampling
Document(s) Reviewed:	
Inspection Reports	

Coring of HMAC production pavement, alongside nuclear gage testing by SE inspector Andrew H. All cores collected and delivered to SF lab for laboratory density inspection.

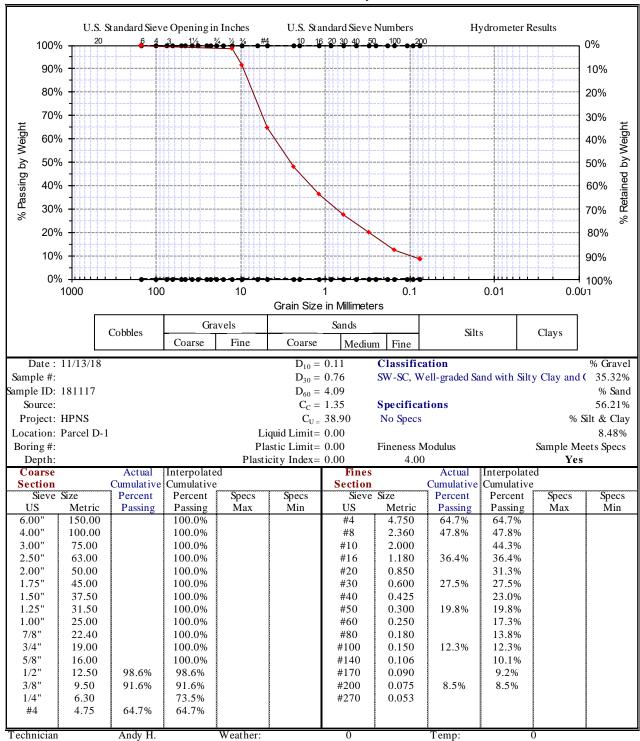
Work Inspected ✓ MET ☐ DID NOT MEET The Requirement of the Requiremen	ith the Requirements of
Work Not In Compliance:	Notified (Required)
Attachments:	Name: Matthew Barnes I.
CC: DSA Regional Office Project Architect Structural Engineer Project Inspector	Signature: MB .  Certification # Page or



An Independent Commercial Testing Laboratory

1940 Oakdale Avenue San Francisco, CA 94124 (415) 642-7326 Fax (415) 642-7055 791 East Washington Blvd. Los Angeles, California 90021 (213) 749-3411 Fax (213) 746-7228

#### CTM 202 Sieve Analysis





An Independent Commercial Testing Laboratory

1940 Oakdale Avenue San Francisco, CA 94124 (415) 642-7326 Fax (415) 642-7055 791 East Washington Blvd. Los Angeles, California 90021 (213) 749-3411 Fax (213) 746-7228

Proj./Job N	No <u>69994-1</u>	_	
Lab. No.:	181111	_ _	
	Date Received:	11/13/2018	
	Date Tested:	11/14/2018	California Kneading Compactor
			Cox & sons
Project: Location:	HPNS Parcel D	-1	
Subject:	Hveem(Aspha	lt Concrete)	
Standard:	ASTM D 1561	& ASTM D2726	
Source:	Samples Molde	ed in the Laboratory	
Sampled a	t: Granite Pleasar	nton	

#### **Report of Test**

Cample No	Weigh	Weight of Sample, grams			Density	Absorbtion
Sample No.	In Air	In Water	SSD in Air	Sp. Gravity	(Lbs/ft3)	Percent
1	1236.6	725.7	1240.4	2.403	149.5	0.738
2	1247.6	729.7	1253.2	2.383	148.3	1.070
3	1241.8	725.6	1247.9	2.378	148.0	1.168
				Average	Average	Average
				2.388	148.6	0.99

Bulk S.P. Gravity of Paraffin Wax

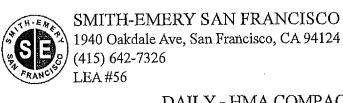
D 1				
Remarks:	na			
Mix:	1/2" HMA			
Extraction:	na			
<b>Moisture:</b>	na			
<b>Technician:</b>	Andy H.			
Tested by:	9136	_		
Date:	11/15/2018	_		



An Independent Commercial Testing Laboratory

1940 Oakdale Avenue San Francisco, CA 94124 (415) 642-7326 Fax (415) 642-7055 791 East Washington Blvd. Los Angeles, California 90021 (213) 749-3411 Fax (213) 746-7228

Proj./Job No.:	69995-1				
Lab. No.:	181117				
Date Received	: 11/16/18		Equipmer	nt Used:	
Date Tested:	11/20/2018	3	-1	Rice Apparatus	
Date Tested.		<u></u>		Vacuum Appara	ntus
Project:	Hunters point n	aval station			
Location:	Parcel D-1				
Subject:	Theoretical Ma	x. Specific Gravity and Density of Bituminous l	Paving Mi	ixtures	
Standard:	CTM 309				
Source:	Samples Obtain	ed from Site			
Sampled at:	50 tons				
		Report of Test			
1. Bowl Used I	Jnder Water Det	ermination:			
1.20 0.000		s of Sample Air (A)	=		gm.
		s of Bowl Under Water (B)	=		gm.
		s of Bowl and Sample Under Water (C)	=		gm.
	171431	- · · · · · · · · · · · · · · · · · · ·			g
		$Gmm = \frac{A}{A - (C-B)}$			
	whe	(- )			
	WIIG	$G_{mm} = Max$ . Specific Gravity of the 1	Mixture –		
2. Bowl in Air	Determination:	Omm = Wax. Specific Gravity of the	WIIAUIC –		
2. Bowi in 7 in 1		s of Sample Air (A)	=	1513.9	gm.
		s of Lid and Bowl with Water at 25 °C (D)	=	7498.6	gm.
		of Lid, Bowl and Sample with Water at 25 °C (E)	=	8353.3	
	IVI ass	_	_	659.2	gm.
		$G_{mm} = \frac{A}{A + D - E}$		039.2	gm.
	· · · · h				
	whe	$G_{mm} = Max$ . Specific Gravity of the 1	Mistura –	2.297	
Calibration:	7498.1	O <sub>mm</sub> – Max. Specific Gravity of the h	Mixture –	2.291	<del></del>
Cambi audii.	7498.1				
	7499.1				
Final Cal. (gm)					
rmai Cai. (glli)	ハーノマンジ・オ				
Density =	143.3 lbs/f	 ft^3			
	_ 100/	· ·			
Tested by:	ZS				
Date:	11/21/2018	<del></del>			
		<del></del>			



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DSA Appl. # _	
OSHPD#_	
Permit#_	

	1940 O (415) 6	akdale Ave, San Francisco, CA 42-7326	A 94124	DSA Appl. # OSHPD # Permit #					
PRANC	DAILY - HMA COMPACTION TEST REPO				REPOI	RТ			
Project Ad Inspection	ddress: 🔟 n Location	OTECHNICAL-SERV: PARCI WHTERS POINT 1: PARCIEL O.1 / PSY med: COMPACTION-TE	187W	of so	SESF Jo	ate: 11 / 4 b # 69	<u>। /। ह</u> ६६५-।		
	t(s) Revie								
	Soil			Density	y (pcf)	% Rel. Co	mpaction	D	F-:(
Test #	Type #	Location	Elev.	Field	Max	Field	Spec.	Pass	Fail
01	# 1	REF: MAIN	5.6,	144.6	150.4	96	95	K	
02		DATED 11/6/18	5.6.	143.9		95	95	X	
03	1	1/2 Ac.	5.6	142.8		45	95	A	
04.			S، د	144.3		96	95	K	
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66			5.4.	143,7		95	95	K	ᆜ
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ଫ			6.0	142.9		95	95	K	믬
10			۲.۵	144.3		96	95		片
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12			S,c	M48		96	95	M	井
13			5, 6	143.9		45	95		
HMA Type #		HMA Descri	ption			M	ax Density	(pcf)	
林丨	1/2" A.	С,		150.4					
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	ot In Con	ipliance: COURSR = S.C.	Notified (Re	equired) _					
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Attachme	ents:			Name: _	HNDRE	îw Havi	NICHO	RIG	
	Regional Of t Architect	fice	S	ignature: a			//		
	ural Engine	er		cation#_					
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Project Inspector School District

Emp. ID: 2324 Page 1 of 3

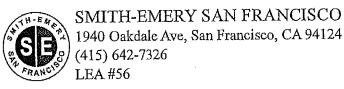
#### SMITH-EMERY SAN FRANCISCO 1940 Oakdale Ave, San Francisco, CA 94124. (415) 642-7326 LEA #56 DAILY - HMA COMPACTION T Project Name: GEOTECHHTUAL SERV: PARCEL R-2 CRIT Project Address: HWHTELS POINT Inspection Location: PARCEL D-1 RSY WEST Inspection(s) Performed: COMPACTEON- TEST PHILE Document(s) Reviewed: Soil Test# Location Elev. Type #

H.FI	SMIT	H-EMERY SAN FRAI	NCISCO		DSA Fil	e#			
TH-EMER	1940 O	akdale Ave, San Francisco,			DSA App	1.#			
ي <b>و اع</b>	(415) 6	•	, 7	OSHPD #					
FRANCIS	LEA#5				Perm	it#			
		DAILY - HMA (	COMPACTION	ON TEST	REPOR	RT			
Project Na	nme: 66	otkohmtaduskru: Pa	irche R-2	crit so	2506 D	ate: 11/6	18		
Project Ad	Idress 1	WHITERS POINT			_ SESF Jo	b# <u></u>	1994-1		
nspection	Location	: PARLIEL D-1 /	254 WKSR						
		med: COMPACTION-	test phis						
Document	t(s) Revie	wed:	1	· · · · · · · · · · · · · · · · · · ·				T	<del></del>
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25			50	143.7		95	95	K	片뉘
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HMA Type #		HMA Des	scription			M	ax Density	(pcf)	
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122	M: DIS	559							
Attachme	ents:			Name:	ANDRI	rw Ha	auzch	005	
	Regional Of t Architect	fice	S	Signature: .		9	24	A	

CC: DSA Regional Office Project Architect Structural Engineer Project Inspector School District

Certification # \_\_\_ 2324 Emp. ID: \_\_\_

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	(415) 6	Jakdale Ave, San Francisco, 642-7326	CA 94124	OSHPD#					
FRANCI	LEA#			Permi	it#				
		DAILY - HMA C	COMPACTIO	N TEST	REPOF	TS			
Project N	ame: (a	ROTACHHICAL - SIZRU:	PARORL E-2	CRIES	oorce Da	nte: _\(\sum_{\text{\text{(1)}}}	0/18		
Project A	ddregg	HUNTRIPS POINT			_SESF Jo	b#_ <b></b> ტე	994-1		
nspection	n Locatio	n: PARCRU D-1 / K	24 MKZG						
nspection	n(s) Perfo	rmed: CompactIon	- TRSTENY	<b>?</b>		· · · · · · · · · · · · · · · · · · ·			
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31.	+		S.C.	144.6		96	95	DF.	
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			Notified (Re						
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Attachm	nents:			Name:	AHMRA	W HAWI	12 CHON	725	
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	Regional C							A	
	ect Architec			ignature:		M	A CONTRACTOR OF THE PARTY OF TH	<u> </u>	,
	ctural Engin			ication#	720				. <b>7</b>
School District				Emp. ID:	238	<u>.</u>	Pag	ze 🔼	of <b>3</b>

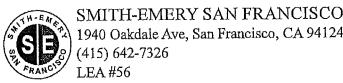
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THIE MEA	. ا الملكة 1940 O	akdale Ave, San Francisco, C		DSA Appl. #					
	i i	42-7326		OSHPD#					
FRANCIS	LEA#5			Permit #					
	DAILY - HMA COMPACTION TEST RE				REPOR	T			
Dundanat Nīc	Coffee	STRCHMICAL - STERV: PA	ROKL E-2 C	BOI SOC	200 Da	ate: W/3	7/18		
roject Na Project Ad	inie: <u>ve</u>	huntres point.			SESF Jo	b#_ <b>6</b> 9	१९९५-।		
nanection	Location	PARCEL D-1 /F	254 WEST						
nspection	(s) Perfor	med: COMPACTION-T	TRST DNG						
	t(s) Revie			,			<u>.,'`</u>		
	Soil		Flori	Density	(pcf)	% Rel. Co	mpaction	Pass	Fail
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তন			5.c.	143.7 142.9		95	95	十一	情
10			5.C,	144.6		96	95	愩	
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	Regional O		q	ignature:					
	ct Architect			_	(	-9			
Struc	tural Engin		Certif	ication#					

Project Inspector School District

Emp. ID: 2324

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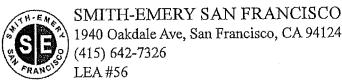


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THE MEA	1940 Oakdale Ave, San Francisco, CA 94124					~ ~					
\$ D 5	8) (415) 642-7326				OSHPI	) #					
FRANCIS	LEA #56 Perm				Perm	it#					
				DAILY - HMA COM	IPACTIO	ON TEST	REPOR	RT			
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roject Ac	idress:	: <u> </u>	- C	MOCEL DI / RSY	WKST		- ODOY, 10	υπ			
nspection	Loca	tion:	<u> </u>								
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						Mamai	AHM RE	W HAW	VECHUR	SC	,
Attachme	ents: _					тапь: .				1	/

CC: DSA Regional Office Project Architect Signature: 🗻 Structural Engineer Certification # Project Inspector School District

Page 2 of 3 2324 Emp. ID: \_\_



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TH-EM.	SMITH-EMERY SAN FRANCISCO BSATILE#								
TH-EME	🖒 1940 O	akdale Ave, San Francisco,	DSA Appl. #						
E De	<i>੪/</i> (415) 6	42-7326	OSHPD#						
FRANCIS	LEA#:	56		Permit #					<del></del>
		DAILY - HMA (	COMPACTIO	ON TEST	REPOR	RT			
Project N	ame: (ol	rotrchhical. Sizev: F	PROFIL E-2	CBLE 50	2506 D	ate: W	7/18		
Project A	ddrees.	HUMEKES POTMIT			_ SESF Jo	b#_ <b>6</b> °	1994-	<u>t</u>	
nspection	n Location	1: PARCHEL D-1 /R	SY WKST						
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	ıt(s) Revie								
	Soil			Densit	y (pcf)	% Rel. Co	mpaction	Pass	Fail
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Type #									
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CC: DSA	Regional O	ffice					1/6	_ 0	
Projec	ct Architect		S	lignature:	<del></del>	me	107	2	
Struct	tural Engine	er	Q-416	instinu #	,				

Structural Engineer Project Inspector School District

Certification # . Emp. ID: 2324

Page <u>3</u> of <u>3</u>

SMITH-EMERY SAN FRANCIS	SCO DSA File #
1940 Oakdale Ave, San Francisco, CA 9	
(415) 642-7326	OSHPD #
FRANC'S LEA #56	Permit #
DAILY SPECIAL	INSPECTION REPORT
Project Name: GROTRICH WICAL - SIERV: PARCH	
Project Address: HUNTRES POINT	SESF Job # <u>69994-1</u>
Inspection Location: Prechu D-1 / PSY 1	7246
Inspection(s) Performed: COMPACTION - TE	STEML
Document(s) Reviewed:	1
Inspection Report:	
	1.16
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ZATOR DUALIT (GRAN	TTEREST R.W.C.) GEEDICOOWN.
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Work WAS WAS NOT Inspected in Accordance with the Requirement	nts of DSA OSHPD JURISDICTION Approved Documents N/A
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Material WAS WAS NOT Sampled and Tested in Accordance with the	e Requirements of DSA OSHPD JURISDICTION Approved Documents N/A
Material Tested MET DID NOT MEET The Requirements of the	
Work Not In Compliance:	otified (Required)
•	
	Name: AHVIRGEN HAUVECHORSC
Attachments:	Name: AND PAGE THOUSE
CC: DSA Regional Office	
Project Architect	Signature:
Structural Engineer	Certification #
LINGUAGE INCOMPAGEOR	J

Emp. ID: \_

Page 1 of 1

Project Inspector School District SECO Job No: 69994-1

#### **INSPECTION REPORT**

Report No.: INSP-31

Date: 12/14/2018

To: CB&I FEDERAL SERVICES, LLC ACCOUNTS PAYABLE 1230 COLUMBIA STREET, STE. 120 SAN DIEGO, CA 92101

Distributed To:

EMAIL: CB & I FEDERAL SERVICES

Subject: GEOTECHNICAL SERVICES PARCEL

**HUNTERS POINT, CA** 

GEOTECH. SERVICES PARCEL E-2 CONTRACT #: CBI#500506

Attached are inspection reports for the week ending 11/9/2018 for the subject project:

Report By Report Dated Report Title

HAWVICHORST, ANDREW 11/09/2018 Daily Inspection Report for 11/9/2018

SMITH-EMERY SAN FRANCISCO 1940 Oakdale Ave, San Francisco, CA 94124 (415) 642-7326	DSA File # DSA Appl. # OSHPD #
LEA #56	Permit #
DAILY SPECIAL INSP	
Inspection Location: PADERC D-1 / PSY W	SESF Job# <u>69994-l</u> UBST
Inspection(s) Performed: COMPACTION- TIEST	EMP
Document(s) Reviewed:	
Inspection Report:  ON - STATE FOR HUM TR  A.C. FROM GRAHERE [	STENG / SAMPLENG OF
1/2 A.C. FROM GRAHETE 1	DURASOMITON, DRHDENIG
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Attachments:	Name. AMVREW HAWVECTURST
Auachinents.	Name: AMVREW HAWVECTORST

CC: DSA Regional Office Project Architect Structural Engineer Project Inspector School District

Signature:
Certification #

Emp. ID: 2724 Page 1 of 1

A-EM	SMITH-EMERY SAN FRANCISCO
	SMITH-EMERY SAN FRANCISCO 1940 Oakdale Ave, San Francisco, CA 94124 (415) 642-7326 LEA #56
(T) = 8	(415) 642-7326
FRANCI	LEA#56

DSA File#	
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OSHPD#	
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1940 Oakdale Ave, San Francisco, CA 94124 (415) 642-7326					Σ	OSHPD	# #			
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Project Inspector School District

Emp. ID: 2324 Page 1 of 2

SMITH-EMERY SAN FRANCISCO 1940 Oakdale Ave, San Francisco, CA 94124 (415) 642-7326 LEA #56

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52				S.c.	1429	*****			95		<u> </u>
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	ural Engi			(	Certificati	o <b>n</b> ′#:					

Project Inspector School District

2324 Emp. ID: \_\_

Page **Z** of **Z** 



An Independent Commercial Testing Laboratory

1940 Oakdale Avenue San Francisco, CA 94124 (415) 642-7326 Fax (415) 642-7055 791 East Washington Blvd. Los Angeles, California 90021 (213) 749-3411 Fax (213) 746-7228

Proj./Job No.: 69995-1 Lab. No.: 181117

Date Received:11/16/2018Equipment Used:Date Tested:11/20/2018Gilson BSG Water Tank

AND GP-20K Scale

Project: Hunters point naval station

Location: Parcel D-1

Subject: Density(Asphalt Concrete)

Standard: CTM 308 Source: Cores Sampled at: Site

#### Report of Test

Commis No	Weigl	nt of Sample,	grams	Bulk Volume	Bulk Volume	Bulk	Unit Weight
Sample No.	In Air	In Water	SSD in Air	(cc)	(cc)	Sp. Gravity	(pcf)
R1/ 1.851	789.7	462.3	791.2	1.5	327.4	2.412	150.1
R2/ 1.819	762.5	443.1	764	1.5	319.4	2.387	148.6
R3/ 1.852	768.7	446.9	770.3	1.6	321.8	2.389	148.7
R4/ 1.828	753.2	438.2	756.3	3.1	315.0	2.391	148.8
R5/ 3.458	1459.9	852.5	1461.3	1.4	607.4	2.404	149.6
R6/ 3.281	1391.7	811.8	1394.6	2.9	579.9	2.400	149.4
R7/ 3.216	1379.6	804.3	1382.8	3.2	575.3	2.398	149.3
R8/ 3.263	1385.7	804.8	1388.2	2.5	580.9	2.385	148.5
R9/ 2.210	878.7	496.6	884.2	5.5	382.1	2.300	143.1
R10/ 2.180	869.1	493.1	874.7	5.6	376.0	2.311	143.9
R11/ 2.199	854.9	487.1	861.5	6.6	367.8	2.324	144.7
R12/ 2.215	873.1	494.7	875.5	2.4	378.4	2.307	143.6
R13/ 2.419	1027.5	596.1	1029.5	2.0	431.4	2.382	148.2
R14/ 2.456	982.5	564.5	986.3	3.8	418.0	2.350	146.3
						2.40	149.1

**Bulk S.P. Gravity of Paraffin Wax** 

 Remarks:
 Sample No. includes sample height & location . R=Random - as all cores where taken at random

 Mix:
 1/2" HMA

 Extraction:
 na

 Moisture:
 na

 Inspector:
 Andy H.

 Tested by:
 Jah Lopez

 Date:
 11/21/2018

SECO Job No: 69994-1

#### **INSPECTION REPORT**

Report No.: INSP-32

Date: 12/14/2018

Distributed To:

EMAIL: CB & I FEDERAL SERVICES

To: CB&I FEDERAL SERVICES, LLC ACCOUNTS PAYABLE 1230 COLUMBIA STREET, STE. 120 SAN DIEGO, CA 92101

Subject: GEOTECHNICAL SERVICES PARCEL

**HUNTERS POINT, CA** 

GEOTECH. SERVICES PARCEL E-2 CONTRACT #: CBI#500506

Attached are inspection reports for the week ending 11/16/2018 for the subject project:

Report ByReport DatedReport TitleBARNES, MATTHEW11/13/2018Daily Inspection Report for 11/13/2018HAWVICHORST, ANDREW11/13/2018Daily Inspection Report for 11/13/2018

STA FRANCIS	SMITH-EMERY SAN FRANCISCO 1940 Oakdale Ave, San Francisco, CA 94124 (415) 642-7326 LEA #56
FRANCI	LEA #56

DSA File #	N/A
DSA Appl. #	N/A
OSHPD#	
Permit#	N/A

1940 Oakdale Ave, San Francisco, CA 9	
(415) 642-7326	OSHPD # N/A
LEA #56	Permit # N/A
DAILY SPECIAL	INSPECTION REPORT
Project Name: Geotechnical Services Parcel E-2, CI	
- II A D'AG D'	SESF Job # 69994-1
Inspection Location: HMAC Production Paving	
Inspection(s) Performed: Coring	Hot Mix Asphalt - Sampling
Document(s) Reviewed:	
Inspection Report:	
Coring of HMAC production pavement, alongside n collected and delivered to SF lab for laboratory dens	uclear gage testing by SE inspector Andrew H. All cores sity inspection.
Work ₩ WAS WAS NOT Inspected in Accordance with the Requirement Work Inspected ₩ MET DID NOT MEET The Requirements of the Material ₩ WAS WAS NOT Sampled and Tested in Accordance with the Material Tested ₩ MET DID NOT MEET The Requirements of the D	DSA OSHPD JURISDICTION Approved Documents N/A  Requirements of DSA OSHPD JURISDICTION Approved Documents N/A
Work Not In Compliance: No	otified (Required)
Attachments:	Name: Matthew Barnes I.
CC: DSA Regional Office	7110 1

Project Architect Structural Engineer Project Inspector School District

Signature:  $MB\sqrt{.}$ Certification # \_

Emp. ID: 2851

\_ Page \_\_\_ of \_\_\_

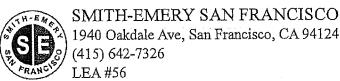
THE METAL OF THE PARTY OF THE P	SMITH-EMERY SAN FRANCISCO 1940 Oakdale Ave, San Francisco, CA 94124 (415) 642-7326 LEA #56
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	<b>₩</b> 7.64 / ` '				OSHPD # Permit #					
PRANC	LEA#5		Y - HMA COM	(DACTIC	M TEST					
Project Na	ame: _CE	DAIL OTECHNICAL WHITERS P	-Seen: Paper	EL E-S C	B(3200)	<b>506</b> Da	ate: <u>\</u>	3/18		
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Inspection Inspection	n(s) Perfor	med: Comp	ACTION-TRS	JHIT?						
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Struct	tural Engine	er		Certifi	ication# .		- 4			
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School District

Emp. ID: 2324 Page 1 of 3



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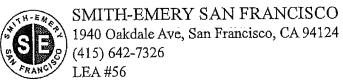
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	<u>8</u> / (415) 642-7326				OSHPD # Permit #						
FRANCI	LEA #56				Perm	it #					
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15		COPILIPACIENT FT	5.c.	142.8	1	95	95	K			
16			S.C.	143.4		95	95	Z			
17			S.c.	144.6		96	45	X			
18			5.c.	142.9		95	95	X			
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Structural Engineer Project Inspector School District

Certification#

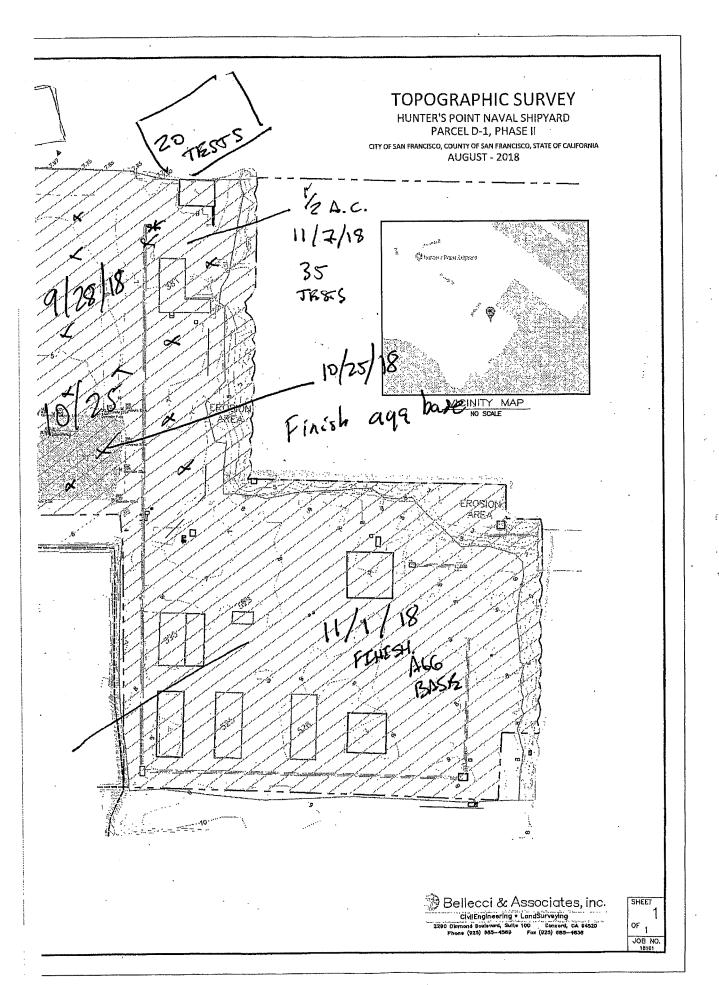
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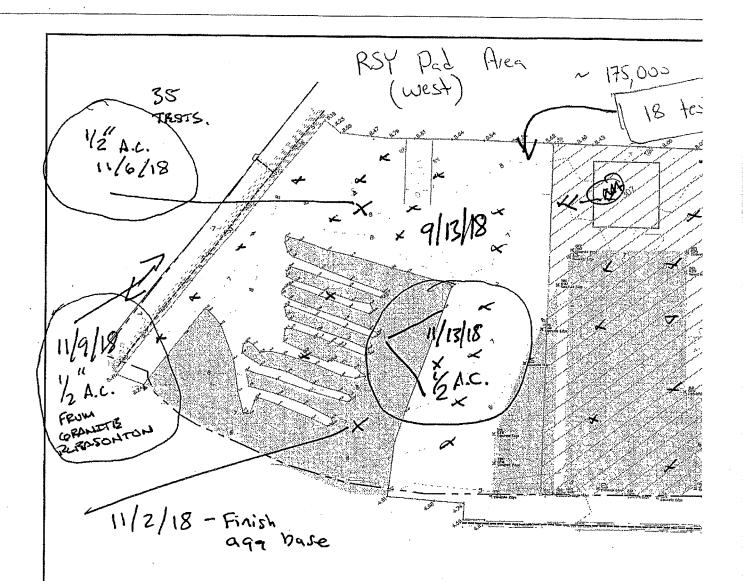
Page <u>2</u> of <u>3</u>



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28			5.4	144.6		96	95	X	H
29	-		5.4	144.8		96	95	X	
<u>30</u> 31			S.c.	143.9		95	95	X	
32			5.c.	145.3		96	95	M	
33			S.c.	143.6		45	95	X	
34			S.c.	144.2		96	65	<b>✓</b>	
35			5.6,	143.8		95	95		
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HMA Type #		HMA Description					lax Density	(pcf)	
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Material 🔀	was 🗌 was	NOT Sampled and Tested in Accordance with	the Requirement	ts of 🔲 DSA [	🗌 oshpd 🔀	JURISDICTION	N Approved Do	cuments	□ N/A
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CC: DSA	Regional Of	fice					11/	1	
Projec	ct Architect		S	Signature: .		) [[]	12		<del></del> -
	tural Engine	er	Certif	ication# .					
	ct Inspector			Emp. ID: .	2321	1	Pag	e <u>3</u>	of <u>3</u>

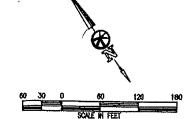




1	$\overline{}$	$\sim$	~		
1	-	١,	~	Ν	1 1

٨	SURVEY SET 600 NAIL	AC	ASPIALT CONCRETE	G	CROUND
•	SURVEY MONUMENT	स्टार	DOTTOM STEP	GB	CRADE BREAK
-0-	POWER POLE	CL.	CENTERLINE	ia)	MANHOLE
φ .	UTIL MER	CONC/CHC	CONCRETE	PP	POWER POLE
*	VIII. STREET LICHT	EC/EDC	END OF CURVE/CONCRETE	TFC	TOP OF CURB
н	UTIL YALYE	er .	EDGE OF PAYEMENT	15112	TOP OF STEP
<del>-</del>	CHAIN LINK FENCE	FEN/FNC	FENCE	unt	VIILITY
	WALL	FL.	PLOW LINE	YLT	VALAT
	n/all	FNO	FOUND	YLY	YALYE

DATUM NOTE:
HORZONIA AND VERIRCAL CONTROL DATA IS BASED ON HUMBERS POINT WEST 1
HORSTS CALFORNA COORDINATE ZONE SISSIFIA ZONE S. MADZY NAVOZO



P93013

### SMITH-EMERY SAN FRANCISCO



An Independent Commercial Testing Laboratory

1940 Oakdale Avenue San Francisco, CA 94124 (415) 642-7326 Fax (415) 642-7055 791 East Washington Blvd. Los Angeles, California 90021 (213) 749-3411 Fax (213) 746-7228

Proj./Job No.: 69995-1 Lab. No.: 181117

Date Received:11/15/2018Equipment Used:Date Tested:11/20/2018Gilson BSG water tank

AND GP-20K scale

Project: Hunters point naval station

Location: Parcel D-1

Subject: Density(Asphalt Concrete)

Standard: CTM 308 Source: Cores Sampled at: Site

#### **Report of Test**

Commis No	Weigl	nt of Sample, ş	grams	Bulk Volume	Bulk Volume	Bulk	Unit Weight
Sample No.	In Air	In Water	SSD in Air	(cc)	(cc)	Sp. Gravity	(pcf)
R15/ 2.352	975.3	565.2	984.4	9.1	410.1	2.378	148.0
R16/ 2.396	988.1	574.6	989.9	1.8	413.5	2.390	148.7
R17/ 3.255	1304.5	753.3	1308.2	3.7	551.2	2.367	147.3
R18/ 2.815	1164.2	670.3	1169.8	5.6	493.9	2.357	146.7
R19/ 3.135	1249.4	720.7	1250.7	1.3	528.7	2.363	147.1
R20/ 2.726	1103.4	636.8	1110.9	7.5	466.6	2.365	147.2
R21/ 2.590	1067.1	614.5	1072.5	5.4	452.6	2.358	146.7
R22/ 2.802	1088.5	627.4	1093.3	4.8	461.1	2.361	146.9
R23/ 2.839	1101.1	635.5	1104.1	3.0	465.6	2.365	147.2
R24/ 2.577	1075.8	621.3	1077.6	1.8	454.5	2.367	147.3
							_
						2.38	148.0

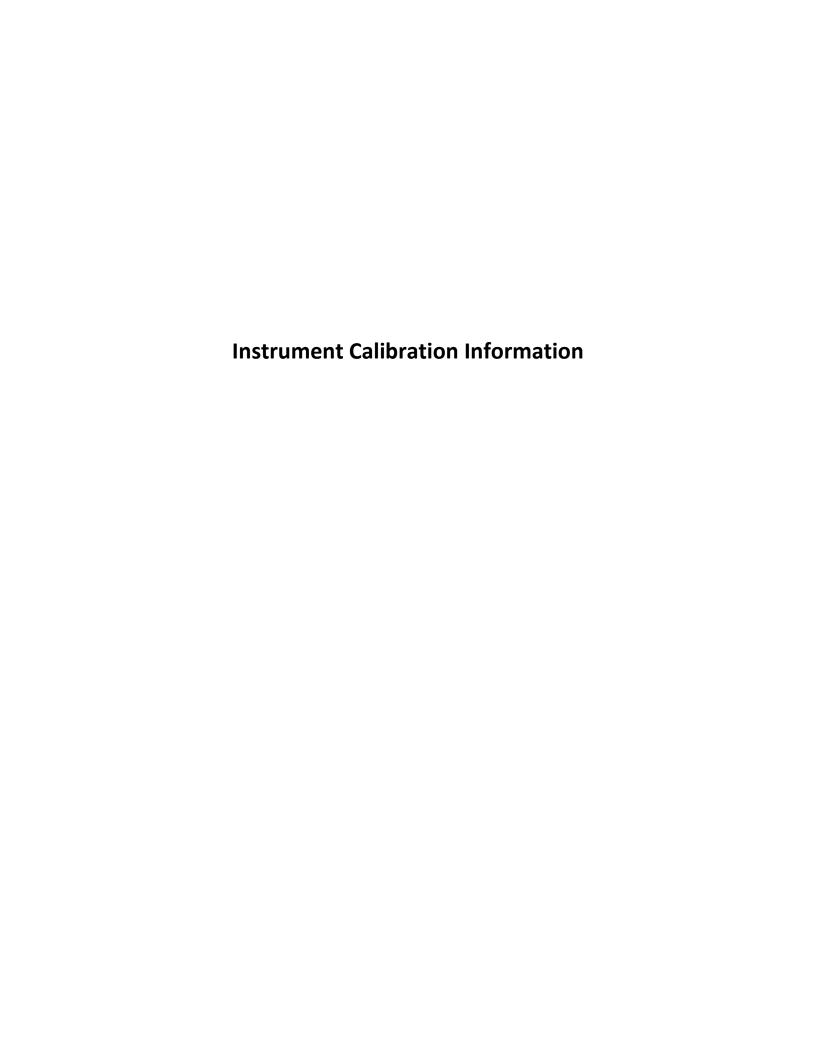
Bulk S.P. Gravity of Paraffin Wax

Remarks:	Sample No. includes height & location. R= Random as all cores where taken at random.
Mix:	1/2" HMA
Extraction:	na
Moisture:	na
Inspector:	Andy H.
Tested by:	
Date:	11/21/2018

1

## Appendix L Instrument Calibration and Gamma Walkover Survey Data

(provided on electronic copy only)



### **Background Determination**

Instrument	Instrument	Probe	Probe	Calibration Due Date
Model	Serial #	Model	Serial #	
2221	117634	44-20	PR269980	6/29/2019

Surface Type :	Table Top (trailer)		
Date Collected :	7/9/2018		
Collected By:	D.Gerg		
Count Time	1		

#	Counts	cpm
1	7610	7610
2	7588	7588
3	7600	7600
4	7768	7768
5	8678	8678
6	8077	8077
7	8249	8249
8	8016	8016
9	7755	7755
10	7791	7791
Mean	7913.2	
Std dev	348.31	
20%	1582.6	

Bkgd - 20% (cpm) 6331 **Bkgd + 20% (cpm)** 9495

	Completed By :	David Gerg	Date :	7/9/2018
1		Randall Killnack		7/9/2018

### **Source Determination**

Instrument	Instrument	Probe	Probe	Calibration Due Date
Model	Serial #	Model	Serial #	
2221	117634	44-20	PR269980	6/29/2019

Source ID #	Source Nuclide	Initial Source Activity (μCi)	Assay Date	Half Life	Decayed Source Activity (μCi)
1405-22-4	Cs-137	9.856	11/1/2009	30.17	8.072

Surface Type:	Table Top (trailer)		
Date Collected :	7/9/2018		
Collected By:	D.Gerg		
Count Time	1		

#	Counts	cpm	
1	384222	384222	
2	384017	384017	
3	384995	384995	
4	385486	385486	
5	384594	384594	
6	386728	386728	
7	386806	386806	
8	387932	387932	
9	385984	385984	
10	385747	385747	
Mean	385651.1		
Std dev	1251.8		
20%	77130.2		

Source - 20%	
308521	

Source + 20% 462781

Completed By :	David Gerg	Date :	7/9/2018
Reviewed By:	Randall Killpack	Date :	7/9/2018

Source ID#	Source Nuclide	Initial Source Activity (μCi)	Creation Date	Half Life (yrs)	Decayed Source Activity (µCi)
1405-22-4	Cs-137	9.856	11/1/2009	30.17	8.072
Instrument Model	Probe Model	Instrument Serial #	Probe Serial #	Calibration Date	Calibration Due Date
2221	44-20	117634	PR269980	6/29/2018	6/29/2019
				Calibration	ОК

Date	Background (CPM)	Source (CPM)	Pass or Fail Background	Pass or Fail Source	Instrument not used	Notes
7/9/2018	7791	385747	PASS	PASS		
7/10/2018	7609	387711	PASS	PASS		
7/11/2018	7021	388517	PASS	PASS		
7/12/2018	7625	410307	PASS	PASS		
7/13/2018	7514	421903	PASS	PASS		
7/16/2018	7122	395558	PASS	PASS		
7/17/2018	6818	404904	PASS	PASS		
7/18/2018	7183	416507	PASS	PASS		
7/19/2018	7491	396163	PASS	PASS		
7/20/2018	6810	383858	PASS	PASS		
7/23/2018	7632	401195	PASS	PASS		
7/24/2018	6863	402387	PASS	PASS		
7/25/2018	7800	381646	PASS	PASS		
7/26/2018	7621	386720	PASS	PASS		
7/27/2018	7064	395554	PASS	PASS		
7/30/2018	7643	397194	PASS	PASS		
7/31/2018	7442	384013	PASS	PASS		
8/1/2018	7770	384545	PASS	PASS		
8/2/2018	7527	388924	PASS	PASS		
8/3/2018	7273	406137	PASS	PASS		
8/6/2018	7438	389099	PASS	PASS		
8/7/2018	7455	401878	PASS	PASS		
8/8/2018	7630	390123	PASS	PASS		
8/9/2018	7493	393835	PASS	PASS		
8/10/2018	7387	381869	PASS	PASS		
8/13/2018	7901	401517	PASS	PASS		
8/14/2018	7611	392418	PASS	PASS		
8/15/2018	7661	401184	PASS	PASS		
8/16/2018	7391	400153	PASS	PASS		
8/17/2018	7153	398364	PASS	PASS		
8/20/2018	7397	399556	PASS	PASS		
8/21/2018	7458	410501	PASS	PASS		
8/22/2018	7634	402193	PASS	PASS		
8/23/2018	7678	400732	PASS	PASS		
8/24/2018	7195	406343	PASS	PASS		
8/27/2018	7544	400723	PASS	PASS		

Source ID#	Source Nuclide	Initial Source Activity (μCi)	Creation Date	Half Life (yrs)	Decayed Source Activity (μCi)
1405-22-4	Cs-137	9.856	11/1/2009	30.17	8.072
Instrument Model	Probe Model	Instrument Serial #	Probe Serial #	Calibration Date	Calibration Due Date
2221	44-20	117634	PR269980	6/29/2018	6/29/2019
				Calibration	ОК

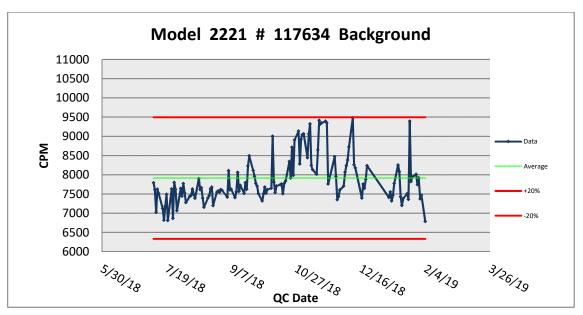
Date	Background (CPM)	Source (CPM)	Pass or Fail Background	Pass or Fail Source	Instrument not used	Notes
8/28/2018	7578	400662	PASS	PASS		
8/29/2018	7542	398723	PASS	PASS		
8/30/2018	7611	399273	PASS	PASS		
8/31/2018	7597	399770	PASS	PASS		
9/4/2018	7418	398873	PASS	PASS		
9/5/2018	8108	380256	PASS	PASS		
9/6/2018	7602	400101	PASS	PASS		
9/7/2018	7623	399492	PASS	PASS		
9/10/2018	7405	394154	PASS	PASS		
9/11/2018	7548	400163	PASS	PASS		
9/12/2018	8062	394846	PASS	PASS		
9/13/2018	7565	401673	PASS	PASS		
9/14/2018	7726	402117	PASS	PASS		
9/17/2018	7511	394909	PASS	PASS		
9/18/2018	7796	399516	PASS	PASS		
9/19/2018	7620	397536	PASS	PASS		
9/20/2018	8226	361895	PASS	PASS		
9/21/2018	8493	399217	PASS	PASS		
9/24/2018	8111	400182	PASS	PASS		
9/25/2018	7959	397421	PASS	PASS		
9/26/2018	7773	399440	PASS	PASS		
9/27/2018	7709	400145	PASS	PASS		
9/28/2018	7509	400566	PASS	PASS		
10/1/2018	7316	399470	PASS	PASS		
10/2/2018	7501	400088	PASS	PASS		
10/3/2018	7678	398337	PASS	PASS		
10/4/2018	7516	396723	PASS	PASS		
10/5/2018	7613	400004	PASS	PASS		
10/8/2018	7649	400244	PASS	PASS		
10/9/2018	9002	400228	PASS	PASS		
10/10/2018	7806	399921	PASS	PASS		
10/11/2018	7536	398817	PASS	PASS		
10/12/2018	7707	400116	PASS	PASS		
10/15/2018	7742	401125	PASS	PASS		
10/16/2018	7756	398323	PASS	PASS		
10/17/2018	7502	397371	PASS	PASS		

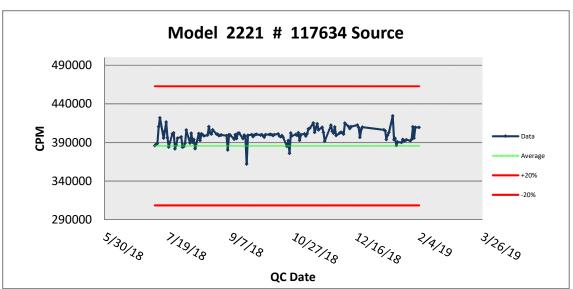
Source ID#	Source Nuclide	Initial Source Activity (μCi)	Creation Date	Half Life (yrs)	Decayed Source Activity (µCi)
1405-22-4	Cs-137	9.856	11/1/2009	30.17	8.072
Instrument Model	Probe Model	Instrument Serial #	Probe Serial #	Calibration Date	Calibration Due Date
2221	44-20	117634	PR269980	6/29/2018	6/29/2019
				Calibration	ОК

Date	Background (CPM)	Source (CPM)	Pass or Fail Background	Pass or Fail Source	Instrument not used	Notes
10/18/2018	7778	398881	PASS	PASS		
10/19/2018	7831	396522	PASS	PASS		
10/22/2018	8345	384831	PASS	PASS		
10/23/2018	7913	392514	PASS	PASS		
10/24/2018	8714	375942	PASS	PASS		
10/25/2018	7983	402170	PASS	PASS		
10/26/2018	8901	398425	PASS	PASS		
10/29/2018	9135	400273	PASS	PASS		
10/30/2018	8277	399147	PASS	PASS		
10/31/2018	8924	402651	PASS	PASS		
11/1/2018	9045	392658	PASS	PASS		
11/2/2018	9063	400193	PASS	PASS		
11/5/2018	8439	401186	PASS	PASS		
11/6/2018	9060	398166	PASS	PASS		
11/7/2018	9322	401225	PASS	PASS		
11/8/2018	8240	407556	PASS	PASS		
11/9/2018	8134	408157	PASS	PASS		
11/12/2018	8012	415297	PASS	PASS		
11/13/2018	8643	402963	PASS	PASS		
11/14/2018	9416	409184	PASS	PASS		
11/15/2018	9317	414137	PASS	PASS		
11/16/2018	9346	406075	PASS	PASS		
11/19/2018	9393	409605	PASS	PASS		
11/20/2018	9347	402856	PASS	PASS		
11/21/2018	7757	391648	PASS	PASS		
11/26/2018	8469	412255	PASS	PASS		
11/27/2018	7954	404523	PASS	PASS		
11/28/2018	7348	401938	PASS	PASS		
11/29/2018	7429	410055	PASS	PASS		
11/30/2018	7603	398952	PASS	PASS		
12/3/2018	7705	402076	PASS	PASS		
12/4/2018	8067	403202	PASS	PASS		
12/5/2018	8236	402429	PASS	PASS		
12/6/2018	8383	400782	PASS	PASS		
12/7/2018	8722	415077	PASS	PASS		
12/10/2018	9481	410750	PASS	PASS		

Source ID#	Source Nuclide	Initial Source Activity (μCi)	<b>Creation Date</b>	Half Life (yrs)	Decayed Source Activity (μCi)
1405-22-4	Cs-137	9.856	11/1/2009	30.17	8.072
Instrument Model	Probe Model	Instrument Serial #	Probe Serial #	Calibration Date	Calibration Due Date
2221	44-20	117634	PR269980	6/29/2018	6/29/2019
				Calibration	ОК

Date	Background (CPM)	Source (CPM)	Pass or Fail Background	Pass or Fail Source	Instrument not used	Notes
12/11/2018	8259	408045	PASS	PASS		
12/12/2018	8177	410475	PASS	PASS		
12/17/2018	7390	412534	PASS	PASS		
12/18/2018	7756	409358	PASS	PASS		
12/19/2018	7646	396621	PASS	PASS		
12/20/2018	7878	406926	PASS	PASS		
12/21/2018	8237	409826	PASS	PASS		
1/7/2019	7407	406409	PASS	PASS		
1/8/2019	7554	404985	PASS	PASS		
1/9/2019	7316	393602	PASS	PASS		
1/10/2019	7464	399211	PASS	PASS		
1/11/2019	7776	402731	PASS	PASS		
1/14/2019	8254	424386	PASS	PASS		
1/15/2019	8077	393387	PASS	PASS		
1/16/2019	7423	395420	PASS	PASS		
1/17/2019	7200	386006	PASS	PASS		
1/18/2019	7379	390580	PASS	PASS		
1/21/2019	7509	389849	PASS	PASS		
1/22/2019	7357	393967	PASS	PASS		
1/23/2019	9394	391625	PASS	PASS		
1/24/2019	7819	392427	PASS	PASS		
1/25/2019	7940	393394	PASS	PASS		
1/28/2019	8013	392076	PASS	PASS		
1/29/2019	7740	393785	PASS	PASS		
1/30/2019	7919	410199	PASS	PASS		
1/31/2019	7371	395596	PASS	PASS		
2/1/2019	7471	409695	PASS	PASS		
2/4/2019	6782	409511	PASS	PASS		





# ERG

# **Certificate of Calibration**

Calibration and Voltage Plateau

Environmental Restoration Group, Inc. 8809 Washington St NE, Suite 150 Albuquerque, NM 87113 (505) 298-4224 www.ERGoffice.com

Meter: Manufacture	:: Ludlum	Model Number:	2221r	S	serial Number:	117634
Detector: Manufacture	: Ludlum	Model Number:	44-20	S	Serial Number:	PR269980
<ul> <li>✓ Mechanical Check</li> <li>✓ F/S Response Check</li> <li>✓ Geotropism</li> </ul>	✓ THR/WIN Opera ✓ Reset Check ✓ Audio Check	ition	HV Check (+ Cable Length		500 V <b>☑</b> 1000 V ch <b>☑</b> 72-inch <b>☐</b> O	
✓ Meter Zeroed Source Distance: □Cont Source Geometry: ✓ Side Instrument found withi	Battery Check (Mact 6 inches Co	other:	Threshold: Window:	10 mV	Barometric Pressure: Temperature: Relative Humidity:	24.39 inches Hg 74 °F 20 %
					Integrated	1 0 1 0
	eference Setting	"As Found Read	ing" M	eter Reading	T Minn Com	
x 1000	400	400		400	399953	400
x 1000	100	100		100		100
x 100	400	400		400	39996	400
x 100	100	100		100		100
x 10	400	400		400	4000	400
x 10	100	100		100		100
x 1	400	400		400	400	400
x 1	100	100		100		100
High Voltage	Source Counts	Ba	ekground		Voltage	Plateau
700	161233					
750	163515				200000	•
800	164573				190000	
850	165456		23664		180000	
900	165952				170000	<b>**</b>
950	167514				150000	
1000	192322				140000	230 000 030 'Ma

Comments: Scaler count time 1 min. Recommended HV = &50

Reference Instruments and/or Sources:			
Ludlum pulser serial number: ☐ 97743 💆 201932		Fluke multimeter ser	ial number: 87490128
☐ Alpha Source: Th-230 sn: 4098-03@12,800dpm/6,5	20 cpm (1/4/12	) Gamma Source C	s-137 @ 5.2 uCi (1/4/12) sn: 4097-03
☐ Beta Source: 75c-99 sn: 4099-03@17,700dpm/11,10			
Calibrated By:	Calibration	n Date: 6:29-18	Calibration Due: 629-19
Reviewed By:	Date:	6-29-18	



### **CERTIFICATE OF COMPLIANCE**

	-	

We hereby certify that the products to the best of our assessment have not changed its response since the system was calibrated June 20, 2016 and fully conforms to RSI standards for RSX-1 detector performance.

This assessment is based on comparing key performance parameters from the system from October 2016 to August 2018 specifically FWHM, gain, and High Voltage.

Sale Order # N/A

Date Issued: September 6, 2018

Product Name RS-700 system with 2 RSX-1

Product Serial # RSX-1 #5597 , RSX-1 #5678

Brodles

Confirmed by Quality Representative:

Darrell Brocklehurst P.Eng.







# **RADIATION SOLUTIONS INC**

## **CALIBRATION SHEET**

Instrument:

RSX-1

**Customer:** 

CB&I

Contact: Console:

6006

**Detector 1:** 

**Detector 2:** 5678

5597

Date:

June 20, 2016

SO#3035

Tech.:

GP

Job Order:

**Customer PO** 

PO#1130464-000

OP

Channels:

1024

ADC Offset: N/A

**High Voltages** 

A1	A2	А3	A4	A5
638	648			

Stripping Constant	"this system"	"normal"
Alpha	0.263	0.250
Beta	0.414	0.400
Gamma	0.755	0.810
а	0.046	0.060
b	0.005	0.000
g	-0.002	0.003

ROI#	Channel	IAEA Specification [keV]	Label
1	137-937	410-2810	Total Count
2	457-523	1370-1570	Potassium K
3	553-620	1660-1860	Uranium U
4	803-937	2410-2810	Thorium Th
5	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
6			
7			
8	553-620	1660-1860	Uranium Upper U

Det#	Peak Cs	Cs FWHM	Peak Th	Th FWHM
A1	219.96	7.33	873.17	4.24
A2	220.05	7.27	872.65	4.30
A3				
A4				
Sum Dn	220.04	7.26	872.91	4.25
Sum IIn				
Sum Up				